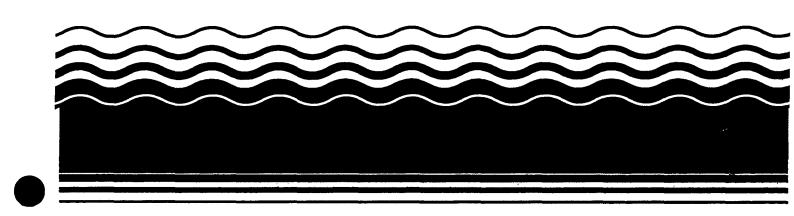
United States Environmental Protection Agency Office of Solid Waste and Emergency Response 9200.5-153 EPA/540/R-95/021 PB95-963226 December 1994

Superfund



U.S. EPA Region VII Inland Area Contingency Plan



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U.S. EPA REGION VII AREA CONTINGENCY PLAN

United States Environmental Protection Agency Region VII - Emergency Planning & Response Branch 25 Funston Road Kansas City, Kansas 66115

December 30, 1994

Revision 1 December, 1994 U.S. Environmental Protection Agency Region 5, Library (PL-12J) 77 West Jackson Boulevard, 12th Floor Chicago, IL 60604-3590

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION VII

OIL POLLUTION ACT OF 1990

AREA CONTINGENCY PLAN

To Report Spills Call:

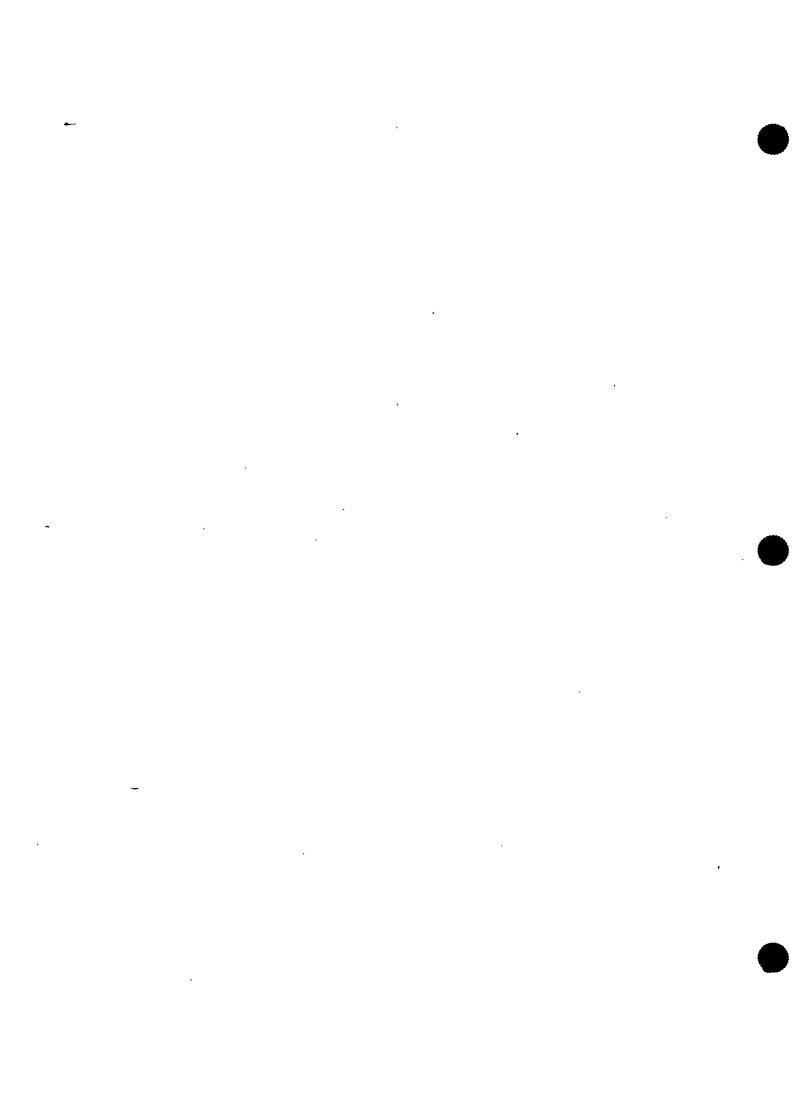
National Response Center (800) 424-8802 (24 Hours)

National Response Center
United States Coast Guard Headquarters
Washington, DC

Regional Response Centers:

United States Environmental Protection Agency
Region VII
Emergency Response Branch
25 Funston Rd.
Kansas City, KS 66115
Emergency Response 24-Hour Emergency Number
(913) 236-3778

United States Coast Guard
Second Coast Guard District Office
1222 Spruce Street
St. Louis, MO 63103-2832
Emergency Response 24-Hour Emergency Number
(314) 539-3706



RETURN RECEIPT

The value of this document is limited by the fact that with the passage of time, certain pages will become obsolete and therefore should be replaced. Also, new information will be developed that will add to the usefulness of this contingency plan.

or revise	pages a	nd distri	bute them	rent, we will perform to you. To in the you mail us	periodically a ndicate your the following	ıdd
Region VI	I Area C	ontingenc	y Plan. I	of a copy of would like to at the addres	the <u>1994 USEPA</u> have revised s shown.	
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MAILING A	odress:					
CITY:				STATE:	ziP:	

Please mail to:

USEPA REGION VII EMERGENCY PLANNING & RESPONSE BRANCH 25 FUNSTON ROAD KANSAS CITY, KANSAS 66115

Letter of Promulgation

In accordance with the provisions of Section 311(j)(4)(c) of the Federal Water Pollution Control Act (Commonly referred to as the "Clean Water Act" and cited herein as "CWA"), 33 U.S.C. Section 1321(j)(4)(c), this plan fulfills the statutory requirements for the Region VII Area Contingency Plan (ACP). The functions of designating areas, appointing Area Committee members, and reviewing and approving the ACP has been delegated by Executive Order 12777, October 22, 1991, to the Administrator of the Environmental Protection Agency (EPA) for the inland zone. This area has been designated as EPA Region VII (Iowa, Kansas, Missouri, and Nebraska) and the Area Committee has been designated as Region VII Regional Response Team (RRT), responsible for reviewing and developing the ACP under the guidance of Jim MacDonald, USEPA Region VII OSC.

Comments and recommendations regarding this plan are invited and should be addressed to Jim MacDonald, OSC, U.S. Environmental Protection Agency, Region VII, 25 Funston Road, Kansas City, Kansas, 66115. This plan will be kept under review. Changes, additional information, or corrections will be promulgated as necessary and will be consecutively numbered.

Regional Administrator

U.S. Environmental Protection Agency

Region VII

DISTRIBUTION

Copies of this plan and all amendments and changes will be distributed to the following: EPA Chairman of the National Response Team (NRT) in Washington, D.C. for NRT distribution; each of the member agencies of the Region VII Regional Response Team listed in Appendix D of this plan; the U.S. Environmental Protection Agency (EPA) Emergency Planning & Response Branch; the National Response Center (NRC); and the State, Indian Tribal and Federal Natural Resources Trustees.

A document control format is used to allow revisions to be distributed on a revised page by page basis. A record will be kept of the recipients of each plan for mailing of subsequent revisions to the ACP (see next page).

DISTRIBUTION LIST

RCP #	RECIPIENT NAME	ADDRESS	PHONE #
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REVISION/UPDATE

USEPA Region VII Area Contingency Plan (ACP) shall be reviewed and updated annually, by the 1st of January. The pian shall be reviewed to ensure all information is current by the Area Committee and submitted to all interested parties.

A document control format is used to allow revisions to be distributed on a revised page by page basis. Each copy of a USEPA Region VII ACP will be numbered and a record kept of the recipients of each plan for mailing of subsequent revisions to the ACP (see next page).

The ACP will be updated annually for the first five years of the plan and then once every fives years.

NOTE: Any changes to the plan must be noted on the record of the changes page.

AMENDMENTS

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EPA REGION VII AREA CONTINGENCY PLAN

I. INTRODUCTION

A. Purpose and Objective

The purpose of this Area Contingency Plan (ACP) is to provide an action plan to respond to a release and to promote timely and effective coordination among the entire spill community, including Federal, State, tribal, local and private entities in response to a discharge or substantial threat of discharge.

B. Authority and Applicability

This ACP is required by Section 311(j)(4)(c) of the Clean Water Act (CWA), 33 U.S.C. § 1321(j)(4)(c), as amended by the Oil Pollution Act of 1990 (OPA 90).

This ACP is written in conjunction with the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 C.F.R. Part 300, and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9601, as amended.

C. Scope

The ACP applies to and is in effect for:

- 1. Discharges of oil into or on the navigable waters, on the adjoining shorelines to the navigable waters, into or on the waters of the exclusive economic zone, or that may affect natural resources, belonging to, appertaining to, or under the exclusive management authority of the United States;
- 2. Discharges or releases into the environment of hazardous substances, and pollutants or contaminants which may present an imminent and substantial danger to public health or welfare in the Areas defined in the

Environmentally Sensitive Areas (ESAs) Appendix, (Appendix A.2).

D. Geographic Description

The geographic description of this ACP is USEPA Region VII, which encompasses the states of Kansas, Iowa, Missouri and Nebraska. Detailed descriptions of areas of special economic and environmental concern can be found in Appendix A.2 and A.3, Environmentally and Economically Sensitive Areas.

E. Response Boundaries and Jurisdiction Guidance

Response Boundaries and Jurisdiction Guidance are discussed in Annex II of the Region VII Regional Contingency Plan (RCP). Overall, the responsibility to provide On-Scene Coordinators (OSCs) for incidents or potential incidents is placed upon the EPA, United States Coast Guard (USCG) and Department of Defense (DOD). The DOD will provide an OSC for all DOD-related incidents and for all non-DOD-related incidents occurring on DOD property within Federal Region VII, as outlined in 40 C.F.R. § 300.175(b)(4). All other real or potential incidents will be responded to by OSCs provided by either EPA or the USCG. Appendix C.3 shows EPA and Coast Guard regional boundaries for Region VII.

F. Plan Integration

This ACP expands upon the requirements set forth in the NCP, augments coordination with State and local authorities, and integrates existing State, local, and private sector plans for the Area. Coordination between inland and coastal plans is ensured because the USCG District Commander is the co-chair of the Regional Response Team (RRT), and the RRT aids in Area planning and coordination for Region VII. This integration is further strengthened through State involvement in both inland and coastal Area planning.

Facility Response Plans (FRPs), as defined by Section 311(j)(5)(A) of the CWA, 33 U.S.C. § 1321(j)(5)(A), shall be reviewed for approval and consistency with this ACP. During a response, the OSC shall meet with the other responding parties to coordinate and integrate this Plan with all other relevant plans including, but not limited to, Federal, State, local, tribal, and private plans. The Area Committee

will continuously review the effectiveness and integration of all plans based on actual responses, exercises, and all other relevant information leading to enhancement of these plans. Further discussion of contingency plan integration is discussed in sections II.K, II.M, III.A and VI.B.

G. Abbreviations

Federal Department and Agency Title Abbreviations:

ATSDR - Agency for Toxic Substances and Disease Registry

DOC - Department of Commerce

DOD - Department of Defense

DOE - Department of Energy

DOI - Department of the Interior

DOJ - Department of Justice

DOL - Department of Labor

DOS - Department of State

DOT - Department of Transportation

EPA - Environmental Protection Agency

FEMA - Federal Emergency Management Agency

GSA - General Services Administration

HHS - Department of Health and Human Services

NIOSH - National Institute for Occupational Safety and Health

NOAA - National Oceanic and Atmospheric Administration

OPS - Office of Pipeline Safety

RSPA - Research and Special Programs Administration

USCG - United States Coast Guard

USDA - United States Department of Agriculture

USFWS - United States Fish and Wildlife Service

State Abbreviations:

IDNR - Iowa Department of Natural Resources

KDHE - Kansas Department of Health and Environment

MDNR - Missouri Department of Natural Resources

NDEQ - Nebraska Department of Environmental Quality

Other abbreviations used throughout this document include the following:

AC - Area Committee

ACP - Area Contingency Plan

ARARs - Applicable or Relevant and Appropriate Requirements

CAMEO - Computer-Aided Management of Emergency Operations (a software program)

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

COTP - Captain of the Port (USCG)

CRC - Community Relations Coordinator

CRP - Community Relations Plan

CWA - Clean Water Act (Federal Water Pollution Control Act)

DRAT - District Response Advisory Team (USCG)

EERU - Environmental Emergency Response Unit

EPCRA - Emergency Planning and Community Right-To-Know Act (SARA Title III)

ERCS - Emergency Response Cleanup Services Contracts

ERNS - Emergency Response Notification System

ERT - Environmental Response Team

FOSC - Federal On-Scene Coordinator

FRP - Facility Response Plan

FWPCA - Federal Water Pollution Control Act

HAZMAT - Hazardous Materials

IAG - Interagency Agreement

ICS - Incident Command System

LEPC - Local Emergency Planning Committee

LOSC - Local On-Scene Coordinator

MOU - Memorandum of Understanding

NCP - National Oil and Hazardous Substances Pollution Contingency Plan

NPFC - National Pollution Funds Center

NRC - National Response Center

(Note: Reference is made in the NCP to both the Nuclear Regulatory Commission and the National Response Center. In order to avoid confusion, the NCP and this ACP will spell out Nuclear Regulatory Commission and use the abbreviation "NRC" only with respect to the National Response Center.)

NRT - National Response Team

NSF - National Strike Force

NSFCC - National Strike Force Coordination Center

O&M - Operation and Maintenance

OPA 90 - Oil Pollution Act of 1990

osc - On-Scene Coordinator

OSLTF - Oil Spill Liability Trust Fund

PIAT - Public Information Assist Team

PREP - National Preparedness for Response Exercise Program

PRP - Potentially Responsible Party

RA - Remedial Action

RCP - Regional Contingency Plan

RERT - Radiological Emergency Response Team

RRC - Regional Response Center

RRT - Regional Response Team

SAC - Support Agency Coordinator

SERC - State Emergency Response Commission

SOSC - State On-Scene Coordinator

SSC - Scientific Support Coordinator

SUPSALV - United States Navy Supervisor of Salvage

TAT - Technical Assistance Team

USFWS - United States Fish and Wildlife Service

WCD - Worst Case Discharge

H. Definitions

Terms used herein are defined in Section 300.5 of the NCP, 40 C.F.R. § 300.5, ("Definitions"), Section 311 (a) of the CWA 33 U.S.C. § 1321(a) and OPA 90 ("Definitions"), 33 U.S.C. § 2701, and the regulations promulgated thereunder.

Area Committee: Means the entity appointed by the President consisting of members from qualified personnel of federal, state, and local agencies with responsibilities that include preparing an area contingency plan for an area designated by the President. Section 311(j)(4) of the CWA, 33 U.S.C. § 1321(j)(4).

Area Contingency Plan: means the plan prepared by an Area Committee that is developed to be implemented in part to address removal of a worst case discharge and to mitigate or prevent a substantial threat of such a discharge from a vessel, offshore facility, or onshore facility operating in or near and area designated by the President. Section 311(j)(4) of the CWA, 33 U.S.C. § 1321(j)(4).

Discharge: Includes, but is not limited to, any spilling, leaking, pumping, pouring, emitting, emptying, or dumping, but excludes (a) discharges in compliance with a permit under Section 402 of the CWA, (b) discharges resulting from circumstances identified and reviewed and made a part of the public record with respect to a permit issued or modified under Section 402 of the CWA, and subject to a condition in such permit, and (c) continuous or anticipated intermittent discharges from a point source, identified in a permit or permit application under Section

402 of the CWA, which are caused by events occurring within the scope of relevant operating or treatment systems. Section 311(a) of the CWA, 33 U.S.C. § 1321(a). For purposes of the NCP, discharge also means substantial threat of discharge.

Environmentally sensitive area: An especially delicate or sensitive natural resource that requires protection in the event of a pollution incident. Designations of areas considered to be sensitive can be found in Appendix D of the Facility Response Plan rule. In addition to this definition, Area Committees may include any areas determined to be "sensitive" for OPA 90 planning purposes. These areas may include various habitats that are not specifically under the jurisdiction of a Federal or State agency, but may provide important habitat year around or seasonally for various aquatic or terrestrial species.

Facility: As defined by section 101(9) of CERCLA, means any building, structure, installation, equipment, pipe or pipeline (including any pipe into a sewer of publicly owned treatment works), well, pit, pond, lagoon, impoundment, ditch, landfill, storage container, motor vehicle, rolling stock, or aircraft, or any site or area, where a hazardous substance has been deposited, stored, disposed of, or places, or otherwise come to be located; but does not include any consumer product in consumer use or any vessel. As defined by section 1001 of the OPA it means any structure, group of structures, equipment, of device (other than a vessel) which is used for one or more of the following purposes: exploring for, drilling for, producing, storing, handling, transferring, processing, or transporting oil. This term includes any motor vehicle, rolling stock, or pipeline used for one or more of these purposes.

Hazardous substance: Means any substance designated under Section 311(b)(2) of the CWA, 33 U.S.C. § 1321(b)(2). The designation of hazardous substances is found at 40 C.F.R. Part 116.

Navigable Waters: Means the waters of the United States, including the territorial seas. The term includes but is not limited to:

(a) All waters which are presently used, or were used in the past, or may be susceptible to use as a means to transport interstate or foreign commerce, including all waters which are subject to the ebb and flow of the

tide, and including adjacent wetlands; the term "wetlands" shall include those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas; the term "adjacent" means bordering, contiguous or neighboring;

- (b) Tributaries of navigable waters of the United States, including adjacent wetlands;
- (c) Interstate waters, including wetlands;
- (d) All other waters of the United States such as intrastate lakes, rivers, streams, mudflats, sandflats, and wetlands, the use, degradation, or destruction of which affect interstate commerce including but not limited to:
 - (1) Interstate lakes, rivers, streams, and wetlands which are utilized by interstate travelers for recreational or other purposes; and (2) Interstate lakes, rivers, streams, and wetlands which fish or shellfish are or could be taken and sold in interstate commerce; and (3) Interstate lakes, rivers, streams, and wetlands which are utilized for industrial purposes by industries in interstate commerce 33 U.S.C. § 2701(21), 40 C.F.R. § 116.3.

oil: Means oil of any kind or in any form, including but not limited to, petroleum, fuel oil, sludge, oil refuse, and oil mixed with waste other than dredged spoil. 33 U.S.C. § 1321(a)(1). Oil does not include petroleum, including crude oil or any fraction thereof, which is specifically listed or designated as a hazardous substance under subparagraphs (A) through (F) of Section 101(14) of CERCLA, 42 U.S.C. § 9601, and which is subject to the provisions of CERCLA. 33 U.S.C. § 2701(23).

On-scene Coordinator (OSC): The government official at an incident scene responsible for coordinating response activities.

Regional Response Team (RRT): The Federal response organization (consisting of representatives from selected

Federal and State agencies) which acts as a regional body responsible for planning and preparedness before an oil spill occurs and for providing advice to the OSC in the event of a major or substantial spill.

Worst Case Discharge: Means (a) in the case of a vessel, a discharge in adverse weather conditions of its entire cargo, and (b) in the case of an offshore facility or onshore facility, the largest foreseeable discharge in adverse weather conditions.

II. RESPONSIBILITY AND ORGANIZATION FOR RESPONSE

A. Duties of President Delegated to Federal Agencies

In Executive Order 12777, the President delegated certain functions and responsibilities vested in him by the OPA 90 to the Administrator of the EPA for the inland zone and the commandant of the USCG through the Secretary of Transportation for the coastal zone. These functions and responsibilities include designating Areas, appointing Area committee members, determining the information to be included in ACPs, and reviewing and approving ACPs. The EPA shall assign a Federal OSC to each inland zone Area to carry out these functions and responsibilities.

B. General Organization Concepts

The Area Committees, in conjunction with the National Response Team (NRT) and the Regional Response Teams (RRTs), serve a spill planning and preparedness role within the National Response System. Each Area Committee shall be composed of Federal, State and local agency personnel. Under the direction of the Federal OSC, each Area Committee for its assigned Area shall:

- 1. Prepare and submit for approval an ACP;
- 2. Work with State and local officials to integrate contingency planning and response efforts; and
- 3. Work with State and local officials to expedite decisions for the use of dispersants and other mitigating substances and devices.

c. National Response Team

National planning and coordination is accomplished through the NRT. The NRT consists of representatives from the USCG, EPA, FEMA, DOD, DOE, USDA, DOC, HHS, DOI, DOJ, DOL, DOT, DOS, GSA, and Nuclear Regulatory Commission. For details, see the NCP at 40 C.F.R. § 300.175(b).

D. Regional Response Team

Regional planning and coordination of preparedness and response actions is accomplished through the RRT. The

RRT agency membership parallels that of the NRT but also includes State and local representation.

E. Area Committee

Area planning and coordination of preparedness and response actions is accomplished through the Area Committee. The Area Committee membership includes Federal, State, and local representation. Members of the Area Committee are appointed by the Regional Administrator.

F. On-Scene Coordinators: General Responsibilities

The NCP, at 40 C.F.R. § 300.120, describes the general responsibilities of OSCs. The OSC directs response efforts and coordinates all other efforts at the scene of a discharge or release. OSCs are predesignated by the regional or district head of the lead agency. EPA and the USCG predesignate OSCs for all areas in each region except for any facility or vessel under the jurisdiction, custody, or control of other Federal agencies. The EPA designates Federal OSCs for the inland zones.

Under OPA 90, the Federal OSC has responsibilities related to the establishment of Area committees and the development of ACPs. The Federal OSC chairs the Area Committee and provides general direction and guidance for the committee as it prepares the ACP.

G. Responsible Party Policy

Under OPA 90, the responsible party has primary responsibility for cleanup of a discharge. The response shall be conducted in accordance with the PRP's applicable response plan. Section 311(c)(3)(B) of CWA, 33 U.S.C. § 1321(c)(3)(B), requires an owner or operator of a facility participating in removal efforts to act in accordance with the NCP and the applicable response plan. Section 311(j)(5)(C) of CWA requires that these response plans shall:

- "(i) be consistent with the requirements of the National Contingency Plan and Area Contingency Plans;
- "(ii) identify the qualified individual having full authority to implement removal actions, and require immediate communication between that individual and the

appropriate Federal official and the persons providing personnel and equipment pursuant to clause (iii);

- "(iii) identify, and ensure by contract or other means approved by the President the availability of, private personnel and equipment necessary to remove to the maximum extent practicable a worst case discharge (including a discharge resulting from fire or explosion), and to mitigate or prevent a substantial threat of such a discharge;
- "(iv) describe the training, equipment testing, periodic unannounced drills, and response actions of persons on the vessel or at the facility, to be carried out under the plan to ensure the safety of the vessel or the facility and to mitigate or prevent the discharge, or substantial threat of a discharge;
- "(v) be updated periodically; and
- "(vi) be resubmitted for approval of each significant change." 33 U.S.C. § 1321(j)(5)(c).

All owners or operators of a tank vessel or facility that are required by OPA 90 to submit a response plan shall do so in accordance with applicable regulations. Facility and tank vessel response plan regulations, including plan requirements, are located in 33 C.F.R. § 154 and 40 C.F.R. § 112, respectively. Prior to approval, facility and vessel response plans shall be reviewed for consistency with this ACP.

As defined in OPA 90, each responsible party for a vessel or a facility from which oil is discharged, or which poses a substantial threat of a discharge, into or upon the navigable waters or adjoining shorelines or the Exclusive Economic Zone is liable for the removal costs and damages specified in Section 311(f) of CWA, 33 U.S.C. § 311(f). Any removal activity undertaken by the responsible party must be consistent with the provisions of the NCP, RCP, ACP and the applicable response plan required by OPA 90. If directed by the Federal OSC at any time during removal activities, the responsible party must act accordingly.

H. Notification and Communications

The National Response Center (NRC) is the national communications center for handling activities related to

response actions. The NRC acts as the single point of contact for all pollution incident reporting. Notice of an oil discharge or release of a hazardous substance in an amount equal to or greater than the reportable quantity must be made immediately in accordance with the CWA and CERCLA under 33 C.F.R. Part 153, Subpart B, and 40 C.F.R. part 302, respectively. Notification shall be made to the NRC Duty Officer, HQ USCG, Washington, DC, telephone (800) 424-8802 or (202) 267-2675. All notices of discharges or releases received at the NRC will be relayed immediately by telephone to the appropriate predesignated Federal OSC.

In addition, facilities may be required to report releases of specified hazardous substances to the State Emergency Response Commission (SERC) and the Local Emergency Planning Committee (LEPC) under Section 304 of the Emergency Planning and Community Right-To-Know Act (EPCRA), ±2 U.S.C. § 11004.

I. Determinations to Initiate Response and Special Conditions

The President shall, in accordance with the NCP and any appropriate ACP, ensure effective and immediate removal of a discharge, and mitigation or prevention of a substantial threat of a discharge of oil or hazardous substance. 33 U.S.C. § 1321(c). In carrying out this mandate, the President may direct or monitor all Federal, State, and private actions to remove a discharge. authorized EPA or the USCG to act for the United States to take response measures deemed necessary to protect public health or welfare or the environment from discharges of oil or releases of hazardous substances, pollutants, or contaminants except with respect to such releases on or from vessels or facilities under the jurisdiction, custody, or control of other Federal agencies. 40 C.F.R. § 300.130. assigned Federal OSC may initiate a response. Upon approval by the Federal OSC, State or local governments may initiate a government response. Initiation of a response by private parties is addressed in Section VIII below.

J. Response Operations

To the extent practicable, response operations shall be consistent with Federal, State, and local plans, including ACPs and Facility Response Plans (FRPs). The NRC is the national communications center for activities related to pollution response actions. It is located at USCG Headquarters in Washington, D.C. The NRC receives and provides computer developed spill trajectory forecasts for spills, disseminates OSC and RRT reports to the NRT when appropriate, and provides facilities for the NRT to use in coordination of a national response action when required. The NRC also maintains tele-conferencing capability, as well as a technical library on oil and hazardous substances and can evaluate chemical discharge hazards.

The Regional Response Center (RRC) is the regional site for notification, communication, and inter-agency coordination during a pollution incident. The RRC will be located at the appropriate Coast Guard district office when an incident occurs within its jurisdiction area. The RRC will be located in the EPA Regional Office when an incident occurs in all other areas of Region VII.

The EPA RRC located in EPA Region VII, 25 Funston Road, Kansas City, Kansas, 66115, will provide a predesignated OSC and will coordinate communication, information, limited supplies and equipment, and other personnel and facilities necessary to allow proper functioning and administration of this plan. The state, as well as trustees for natural resources, will be notified of all spills.

The OSC shall direct response efforts and coordinate all other efforts at the scene of a discharge or release. As part of the planning and preparations for response, the OSCs are predesignated by the regional or district head of the lead agency, as spelled out in section 300.120 of the NCP.

The first Federal official affiliated with an RRT-member agency to arrive at the scene of a discharge or release should coordinate activities under the ACP and is authorized to initiate, in consultation with the OSC, any necessary actions normally carried out by the OSC until the arrival of the predesignated OSC. This official may initiate Federal Fund-financed actions only as authorized by

the OSC or, if the OSC is unavailable, the authorized representative of the lead agency.

The OSC shall, to the extent practicable, collect pertinent facts about the discharge or release, such as its source and cause; the identification of potentially responsible parties; the nature, amount, and locations of discharged or released materials; the probable direction and time of travel of discharged or released materials; the pathways to human and environmental exposure; the potential impact on human health, welfare, and safety and the environment; the potential impact on natural resources and property which may be affected; priorities for protecting human health and welfare and the environment; and appropriate cost documentation.

The OSC's efforts shall be coordinated with other appropriate Federal, State, local, and private response agencies. OSCs may designate capable persons from Federal, State, or local agencies to act as their on-scene representatives. State and local governments, however, are not authorized to take actions under Subparts D and E of the NCP that involve expenditures of CWA section 311(k) or CERCLA funds unless an appropriate contract or cooperative agreement has been established.

The OSC should consult regularly with the RRT in carrying out the NCP and ACP and keep the RRT informed of activities under the NCP and ACP.

The OSC shall advise the support agency as promptly as possible of reported releases.

The OSC shall immediately notify the Federal Emergency Management Agency (FEMA) of situations potentially requiring evacuation, temporary housing, or permanent relocation. In addition, the OSC shall evaluate incoming information and immediately advise FEMA of potential major disaster situations.

In those instances where a possible public health emergency exists, the OSC should notify the Department of Health and Human Services (HHS) representative to the RRT. Throughout response actions, the OSC may call upon the HHS representative for assistance in determining public health threats and call upon the Occupational Safety and Health Administration (OSHA) and HHS for advice on worker health and safety problems.

All Federal agencies should plan for emergencies and develop procedures for dealing with oil discharges and releases of hazardous substances, pollutants, or contaminants from vessels and facilities under their jurisdictions. All Federal agencies, therefore, are responsible for designating the office that coordinates response to such incidents in accordance with the NCP and applicable Federal regulations and guidelines.

EPA Region VII and the USCG Second Division, are responsible for responding to incidents, and EPA will provide predesignated OSCs to all pollution response activities in the inland zone. However, DOD and DOE shall designate OSCs for releases of hazardous substances, pollutants, or contaminants from DOE and DOD facilities and vessels. The EPA will provide OSCs for all CWA discharges and non-DOD CERCLA releases unless otherwise agreed. In certain instances, the USCG may act as the lead agency for actual or threatened pollution incidence involving commercial vessels or marine transportation related facilities. The areas of responsibility have been established by a joint EPA and USCG Memorandum of Understanding (MOU). This memorandum is contained in Annex I.

The OSC shall promptly notify and coordinate with the trustees for natural resources in the event of discharges or releases that are injuring or may injure natural resources under their jurisdiction. When the OSC becomes aware that a discharge or release may adversely affect any endangered or threatened species, or result in destruction or adverse modification of the habitat of such species, the OSC should consult with the Department of the Interior (DOI) or the Department of Commerce (DOC), National Oceanic and Atmospheric Administration (NOAA).

The OSC is responsible for addressing worker health and safety concerns at a response scene in accordance with the NCP. 40 C.F.R. § 300.155.

K. Multi-Area Responses

1. In the event that an actual or threatened discharge or release moves from the domain covered by one ACP into another domain, the authority to initiate pollution control actions shall likewise shift. In the event that an actual or potential incident affects areas covered by two or more area plans, the response mechanisms called for by both plans

shall be activated. The NRT will be notified in the event of a discharge which transcends area boundaries (e.g. the Mississippi River). If necessary, the NRT will be activated to coordinate cleanup efforts, personnel and equipment between the affected areas.

- 2. There shall be only one Federal OSC at any time during the course of a response operation. Should a discharge or a release affect two or more areas, the OSC shall be designated by joint agreement of the USCG, EPA, and if appropriate, DOE or DOD. In making this designation agreement, prime consideration will be given to the areas vulnerable to the greatest damage. The RRT shall designate the OSC by consensus if such agreement cannot be reached. The NRT shall designate the OSC if members of one RRT or two adjacent RRTs are unable to agree on the designation.
- 3. During a multi-regional response, oil discharge or releases of hazardous substance that occurs within Region VII may affect EPA Region VIII (Colorado, Wyoming, South Dakota), EPA Region V (Minnesota, Wisconsin, Illinois), EPA Region IV (Kentucky, Tennessee), EPA Region VI (Arkansas, Oklahoma), or the Eighth U.S. Coast Guard District. The same procedures apply as to multi-area responses.

L. Special Teams and Other Assistance Available to OSCs

1. The National Strike Force (NSF) is a special team established by the USCG, including the three USCG Strike Teams, the Public Information Assist Team (PIAT), and the National Strike Force Coordination Center (NSFCC). The NSF is available to assist OSCs in their preparedness and response duties. The NSF may be accessed through the NRC at (800) 424-8802.

The three Strike Teams provide trained personnel and specialized equipment to assist the OSC in training for spill response, stabilizing and containing the spill, and in monitoring or directing the response actions of the responsible parties and/or contractors.

The NSFCC can provide the following support to the OSC:

- 1) Technical assistance, equipment, and other resources during spill response.
- 2) Assistance in coordinating the use of private and public resources.

- 3) Review of the area contingency plan.
- 4) Assistance in locating spill response resources for both response and planning.
- 5) Coordination and evaluation of pollution response exercises.
- 6) Inspection of district prepositioned response equipment.

PIAT is an element of the NSFCC staff, which is available to assist OSCs to meet the demands for public information during a response of exercise. Its use is encouraged any time the OSC requires outside public affairs support. Requests for PIAT assistance may be made through the NSFCC or NRC.

1. The Environmental Response Team (ERT) is established by EPA in accordance with its disaster and emergency responsibilities. The ERT has expertise in treatment technology, biology, chemistry, hydrology, geology, and engineering.

The ERT can provide access to special decontamination equipment for chemical releases and advice to the OSC in hazard evaluation; risk assessment; multimedia sampling and analysis program; on-site safety, including development and implementation plans; cleanup techniques and priorities; water supply decontamination and protection; application of dispersants; environmental assessment; degree of cleanup required; and disposal of contaminated material.

The ERT also provides both introductory and intermediate level training courses to prepare response personnel.

OSC or RRT request for ERT support should be made directly to the Edison, New Jersey office. The 24-hour phone number for ERT is (908) 321-6660.

2. Scientific support coordinators (SSCs) are available, at the request of OSCs, to assist with actual or potential responses to discharges of oil or releases of hazardous substances, pollutants, or contaminants. The SSC will also provide scientific support for the development of RCPs and ACPs. Generally, SSCs are provided by NOAA in coastal and marine areas, and by EPA (ERT) in the inland zone. In the case of NOAA, SSCs may be supported in the

field by a team providing, as necessary, expertise in chemistry, trajectory modeling, natural resources at risk, and data management. NOAA SSCs may be contacted through the following phone number: (206) 526-6317.

During a response, the SSC serves under the direction of the OSC and is responsible for providing scientific support for operational decisions and for coordinating onscene scientific activity. Depending on the nature of the incident, the SSC can be expected to provide certain specialized scientific skills and to work with governmental agencies, universities, community representatives, and industry to compile information that would assist the OSC in assessing the hazards and potential effects of discharges and releases and in developing response strategies.

If requested by the OSC, the SSC will serve as the principal liaison for scientific information and will facilitate communications to and from the scientific community on response issues. The SSC, in this role, will strive for a consensus on scientific issues surrounding the response but will also ensure that any differing opinions within the community are communicated to the OSC.

The SSC will assist the OSC in responding to requests for assistance from State and Federal agencies regarding scientific studies and environmental assessments.

For marine salvage operations, OSCs with responsibility for monitoring, evaluating, or supervising these activities should request technical assistance from DOD, the Strike Teams, or commercial salvagers as necessary to ensure that proper actions are taken.

3. Radiological Emergency Response Teams (RERTs) have been established by EPA's Office of Radiation Programs (ORP) to provide response and support for incidents or sites containing radiological hazards. Expertise is available in radiation monitoring, radionuclide analysis, radiation health physics, and risk assessment. RERTs can provide onsite support including mobile monitoring laboratories for field analyses of samples and fixed laboratories for radiochemical sampling and analyses. Requests for support may be made 24 hours a day to the Radiological Response Coordinator in the EPA ORPs. Assistance is also available from the Department of Energy (DOE) and other Federal agencies.

- 4. The National Pollution Funds Center (NPFC) is responsible for implementing those portions of OPA 90 that have been delegated to the USCG. The NPFC is responsible for addressing funding issues arising from discharges and threats of discharges of oil. The phone number for the NPFC is (703) 235-4756.
- 5. The Environmental Emergency Response Unit (EERU) is contracted to ERT. The spill response group operates and maintains field-ready equipment and provides site-support services to the ERT. This unit is on call 24 hours a day. Its activities include monitoring equipment, conducting extent of contamination surveys and collecting multimedia samples. EERU provides both research and development (R&D). The R&D group tests and demonstrates prototype cleanup and control equipment. EERU also gives training courses to demonstrate the different types of equipment tested.
- 6. The Technical Assistance Team (TAT) is contracted to provide technical expertise for the response to and investigation of oil and hazardous substances incidents. The team has personnel trained in health and safety, multimedia field monitoring and sampling, incident documentation, cost monitoring, cleanup restoration, and disposal techniques during oil and hazardous substances incidents. The 24-hour pager number is (816) 247-8482 or (816) 247-6165.
- 7. The Emergency Response Cleanup Services Contracts (ERCS) is a contracting network that may be used by the OSC to provide support for all federally funded emergency cleanup operation on oil and hazardous substances releases. The ERCS contractor operates a 24-hour, seven-day-a-week call center to maintain response capability and accept and implement delivery orders. Delivery orders may be initiated in a predetermined response time to support the OSC with trained personnel and equipment to control, stabilize, clean up, and subcontract transportation and disposal during oil and hazardous substances releases. The 24-hour emergency number is 1-800-334-0004.
- 8. Local Fire Departments A listing of all local fire departments within the four states in Region VII is available through EPA Region VII, Emergency Planning and Response (EP&R), 25 Funston, Kansas City, Kansas 66115, (913) 551-5000 (Refer to Appendix C.1 for more information). The listings include the county, address, and Chief of each fire department. Also available through EP&R is the Fire

Supplies and Equipment Catalog, which lists fire supplies and equipment stocked by the National Fire Equipment System (NFES) caches. (Refer to Appendix C.2)

NOTE: Response equipment available from the special teams listed above is listed in Appendix C.2.

M. Unified Command System (UCS)

The Unified Command System (UCS) is proposed to be implemented among EPA Region VII, State, and local government organizations, and the responsible party. Under an UCS, appropriate on-scene officials of each agency shall participate in the coordination of the decision-making process during the response. The UCS allows for a coordinated response effort, helps to ensure a coordinated, effective response is carried out and that the particular needs of all parties involved are taken into consideration. The FOSC has the ultimate authority in a response operation and will exert this authority only if the other members of the unified command are not present or are unable to reach consensus within a reasonable time frame.

During responses to oil discharges, local agencies may be involved as part of the unified command, and may provide agency representatives who interface with the command structure through the Liaison Officer or the State representative.

N. Worker Health and Safety

Response actions under the ACP will comply with the provisions for response action worker safety and health in 29 C.F.R. § 1910.120.

In a response action taken by a responsible party, the responsible party must assure that an occupational safety and health (OSHA) program consistent with 29 C.F.R. § 1910.120 is made available for the protection of workers at the response site.

In a response taken under the ACP by a lead agency, an OSHA program should be made available for the protection of workers at the response site, consistent with, and to the extent required by, 29 C.F.R. § 1910.120. Contracts relating to a response action under the ACP should contain assurances that the contractor at the response site will

comply with this program and with any applicable provisions of the OSHA Act and State OSHA laws.

When a State, or political subdivision of a State, without an OSHA-approved State plan is the lead agency for response, the State or political subdivision must comply with standards in 40 C.F.R. Part 311, promulgated by EPA pursuant to EPCRA.

Requirements, standards, and regulations of the Occupational Safety and Health Act of 1970, 29 U.S.C. § 651 et seq. (OSHA Act) and of State laws with plans approved under Section 18 of the OSHA Act (State OSHA laws), not directly referenced in paragraphs (a) through (d) of this section, must be complied with where applicable. Federal OSHA Act requirements include, among other things, Construction Standards, 29 C.F.R. Part 1926, General Industry Standards, 29 C.F.R. Part 1910, and the general duty requirements of Section 5(a)(1) of the OSHA Act, 29 U.S.C. § 654(a)(1). No action by the lead agency with respect to response activities under the ACP constitutes an exercise of statutory authority within the meaning of Section 4(b)(1) of the OSHA Act. All governmental agencies and private employers are directly responsible for the health and safety of their own employees.

Health and safety limitations shall apply during Incident Command System (ICS) emergencies. Response actions under this ACP will comply with the provisions for response action worker safety and health in 29 C.F.R. § 1910.120, and all persons at the response scene must have received OSHA training and certification, which is the direct responsibility of each government agency or private employer.

O. Public Information and Community Relations

During an incident, it is imperative to give the public prompt and accurate information on the nature of the incident and the actions underway to mitigate the damage. OSCs and community relations personnel should ensure that all appropriate public and private interests are kept informed and that their concerns are considered throughout a response. They should coordinate with available public affairs/community relations resources to carry out this responsibility. At the discretion of the OSC, an information coordination center should be established or a person designated to assist in this effort.

Provisions of this section, as contained in the NCP, apply to all activities within Region VII. Additionally, the requirements of Section 300.155 of the NCP mandate the development of formal community relations plans for certain CERCLA response actions. (40 C.F.R. § 300.155). There will be one designated spokesperson for public information and press relations.

The full resources of the RRT will be made available to all OSCs, upon request, to assist in the development of all community relation plans required by this Section of the NCP. A copy of all community relations plans will be submitted as an enclosure to the OSC reports. The community relations plan shall provide for keeping the public informed in the affected area. A trained person should be appointed spokesperson. The spokesperson should be included in the chain of command. Other members of the response team should be trained to direct all communications and public relations issues to the spokesperson. A list of radio and TV contacts should be included in the plan. A copy of all community relations plans will be forwarded to all involved RRT members as soon as developed. RRT members shall provide objections or comments to the chairperson as soon as possible. RRT members should insure their on-scene representatives are familiar with and comply with the plan.

P. Documentation and Cost Recovery

Section 300.335 of the NCP outlines the types of funds which may be available to remove certain oil and hazardous substances discharges. (40 C.F.R. § 300.335). For releases of oil or hazardous substance, pollutant, or contaminant, the following provisions apply:

- 1. During all phases of response, the lead agency shall complete and maintain documentation to support all actions taken under the ACP and to form the basis for cost recovery. In general, documentation shall be sufficient to provide the source and circumstances of the release, the identity of responsible parties, the response action taken, accurate accounting of Federal, State, or private party costs incurred for response actions, and impacts and potential impacts to the public health and welfare and the environment. Where applicable, documentation shall state when the NRC received notification of a reportable release.
- 2. The information and reports obtained by the lead agency for Fund-financed response actions shall, s

appropriate, be transmitted to the NPFC. Copies can then be forwarded to the National Response Team (NRT), members of the RRT, and others as appropriate.

Q. OSC Reports

- 1. As requested by the NRT or RRT, the OSC shall submit to the NRT or RRT a complete report on the removal operations and the actions taken.
- 2. The OSC report shall record the situation as it developed, the actions taken, the resources committed, and the problems encountered.

R. Federal Agency Participation

Federal agencies listed in Section 300.175 of the NCP have duties established by statute, executive order, or Presidential directive which may apply to Federal response actions following, or in prevention of, the discharge of oil or release of a hazardous substance, pollutant, or contaminant. (40 C.F.R. § 300.175). Federal agencies may be called upon by an OSC during response planning and implementation to provide assistance in their respective areas of expertise. Refer to the NCP, 40 C.F.R. §§ 300.170 and 300.175, for a description of agency capabilities and authorities.

Under Section 311(b) of the CWA, the United States Fish and Wildlife Service (USFWS) and NOAA also have duties with respect to Federal response actions following, or in prevention of, discharges of oil or releases of hazardous substances. These two agencies, and other interested parties (including State fish and wildlife conservation officials), should be consulted in the preparation of a fish and wildlife response plan.

s. State and Local Participation in Response

The NCP at 40 C.F.R. § 300.180 describes general State and local participation in response. Appropriate local and State officials will be identified and participate as part of the response structure as provided in Appendix D of this plan.

Every state governor is asked to assign an office or agency to represent the state on the RRT. The state's representative may participate fully in all facets of RRT activity and shall designate the appropriate element of the

state government that would undertake direction of state managed oil or hazardous substance releases. Each state RRT member also represents and coordinates the RRT involvement of various other state, county, and municipal organizations.

The LEPCs are responsible for the development and maintenance of local emergency response plans in accordance with EPCRA, Sections 301 to 303. The LEPCs membership includes various representatives from local governmental agencies, emergency responders, environmental groups, and local industry. The emergency plans developed by these groups must include the following information: the identity and location of hazardous materials; procedures for immediate response to a chemical accident; ways to notify the public about actions they must take; names of coordinators at plants; and schedules for testing the plan.

The local emergency response plan must be reviewed by a SERC. The RRTs may review the plans and provide assistance if the SERC or LEPC, through the State RRT representative, so requests. Federal contingency plans provide for coordination with local government organizations such as county, city, or town governments. This is especially important for traffic control, land access, and disposal of oil or hazardous materials removed in response operations. State conservation departments, through their State's representative on the RRT, shall coordinate wildlife preservation measures for non-migratory animals. When necessary, the closing of areas to commercial fishing due to health hazards will be accomplished by the appropriate state agency.

T. Non-governmental Participation

Industry groups, academic organizations, and others are encouraged to commit resources for response operations. Specific commitments are listed in the RCP and the ACP.

This plan anticipates and encourages representation from industry, landowners, volunteer groups, and other stakeholders. Non-governmental participants will have an ex-officio role.

There are several non-governmental entities that can provide assistance during a pollution response action within Federal EPA Region VII. A partial listing of this information is provided below and further information is contained in the federal contingency plans.

- Chemical Transportation Emergency Center (CHEMTREC) Provides technical expertise, coordination of chemical manufactures, emergency response information on chemical spills 1-800-424-9300 (24-hour emergency number); for planning purposes: (202) 887-1255 during working hours.
- Bureau of Explosives Association of American Railroads, Washington, D.C., can provide technical advice during train accidents. The Bureau of Explosives may provide assistance in the areas of accident assessment, classification of materials, environmental impacts, methods of cleanup and mechanical evaluations of trains. Contact through CHEMTREC at 1-800-424-9300.
- Kansas State University Hazardous Waste Research Center Kansas State University (KSU) leads a seven-institution consortium composed of Montana State University and the universities of Iowa, Missouri, Montana, Nebraska, and Utah. The Center was established in February 1989 to conduct research pertaining to the identification, treatment and reduction of hazardous substances resulting from various agricultural and industrial activities.
- Dr. Richard Hayter is Technology Transfer Director for the Center. He may be contacted at Ward Hall, KSU, Manhattan, KS 66506-5102. Telephone (913) 532-6519.
- American Petroleum Institute, 2100 L Street, NW, Washington, D.C. 20037, telephone (202) 682-8000. This is an organization consisting of representatives of the petroleum industry. Technical and operational expertise is available.
- National Association of Agricultural Chemists. This organization can provide assistance during incidents involving pesticide spills. The trade name and any available information on the amount and location of the spill should be given when assistance is requested.
- Chemical Manufacturers' Association (CMA) is an association of chemical manufacturers and is located in Washington, D.C. CMA's Community Awareness and Emergency Response (CAER) program provided guidance to chemical plant manufacturers for interactions with the

local community in the development of local hazardous materials response plans. CHEMTREC, as mentioned above, is provided by CMA.

- National Pesticides Telecommunications Network telephone number (800) 858-7378 is available from 8:00 am to 6:00 pm Central Time.
- Chlorine Institute phone number (202) 775-2790.

III. PLANNING AND PREPAREDNESS

A. General

Flowcharts and diagrams of the descriptions of planning and coordination structures, Federal contingency plans, and EPCRA local emergency response plans are located in the NCP. The Area committee serves as a planning and preparedness body to support the Federal OSC, and is encouraged to include membership from Federal, State, and local governments and private entities (as ex-officio members). Area Committees are not response support bodies, and are not required to participate in response efforts, but should be composed of response personnel.

B. Planning and Coordination Structure

National - As described in Section 300.110 of the NCP, the NRT is responsible for national planning and coordination. (40 C.F.R. § 300.110).

Regional - As described in Section 300.115 of the NCP, the RRTs are responsible for regional planning and coordination. (40 C.F.R. § 300.115).

Area - Section 311(j) of the CWA requires the Area Committee, under the direction of the Federal OSC for its Area, to be responsible for: (1) preparing an Area Contingency Plan for its Area; (2) working with State and local officials to enhance the contingency planning of those officials and to assure preplanning of joint response efforts, including appropriate procedures for mechanical recovery, dispersal, shoreline cleanup, protection of sensitive environmental areas, and protection, rescue, and rehabilitation of fisheries and wildlife; and (3) working with State and local officials to expedite decisions for the use of dispersants and other mitigating substances and devices.

State - As provided by Sections 301 and 303 of EPCRA, the SERC of each State, appointed by the Governor, is to designate emergency planning districts, appoint LEPCs, supervise and coordinate their activities, and review local emergency response plans. The SERC also is to establish procedures for receiving and processing requests from the public for information generated by EPCRA reporting

requirements and to designate an official to serve as coordinator for information.

The SERC plans are to assure coordination between local emergency response plans and may establish additional state standards for local emergency response plans, while LEPC plans are to be fully coordinated with the applicable elements of the RCP and any relevant federal contingency plans.

Local - As provided by Sections 301 and 303 of EPCRA, emergency planning districts are designated by the SERC in order to facilitate the preparation and implementation of emergency plans. Each LEPC is to prepare a local emergency response plan for the emergency planning district and establish procedures for receiving and processing requests from the public for information generated by Title III reporting requirements. The LEPC is to appoint a chair and establish rules for the LEPC. The LEPC is to designate an official to serve as coordinator for information.

C. Federal Contingency Plans

There are three levels of Federal contingency plans: the NCP, RCPs, and ACPs. These plans are available for inspection at EPA regional offices or USCG district offices. Addresses and telephone numbers for these offices may be found in the United States Government Manual, issued annually, or in local telephone directories.

The National Contingency Plan - The purpose and objective, authority, and scope of the NCP are described in 40 C.F.R. §§ 300.1 through 300.3.

Regional Contingency Plans - The RRTs, working with the States, shall develop Federal RCPs for each standard Federal region. RCPs shall, as appropriate, include information on all useful facilities and resources in the region, from government, commercial, academic, and other sources. To the greatest extent possible, RCPs shall follow the format of the NCP and coordinate with State emergency response plans, ACPs, which are described in Section 300.210(c) of the NCP, 40 C.F.R. § 300.210(c), and EPCRA local emergency response plans, which are described in Section 300.215 of the NCP, 40 C.F.R. § 300.215. Such coordination should be accomplished by working with the SERCs in the region covered by the RCP. RCPs shall contain

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lines of demarcation between the inland and coastal zones, as mutually agreed upon by USCG and EPA.

Area Contingency Plans - In order to provide for a coordinated, effective Federal, State, and local response, each OSC shall direct the Area Committee to develop an ACP for response in the Area. ACPs shall be developed for all Areas, because OSCs in the designated Areas have responsibility for discharges and releases, which often exceed the jurisdiction and capabilities of other responders. Boundaries for Areas are determined by EPA Regional Administrators for the inland zone; Areas are the Captain of the Port (COTP) areas for the coastal zone. Jurisdictional boundaries of local emergency planning districts established by States, described in Section 300.205(c) of the NCP, shall, as appropriate, be considered in determining geographical boundaries of the designated (40 C.F.R. § 300.205(c)). The designated Areas may include several such local emergency planning districts, or In developing the ACP, OSCs shall parts of such districts. direct the Area Committees to coordinate with SERCs and LEPCs in the affected Area.

The ACP shall provide for a well-coordinated response that is integrated and compatible with all appropriate response plans of State, local, and other non-Federal entities, and especially with EPCRA local emergency response plans, or in the Area Committee's area of responsibility. The ACP shall, as appropriate, identify the probable locations of discharges or releases. See Appendices B.1 and B.2. It should list available resources to respond to multi-media incidents, where such resources can be obtained, waste disposal methods and facilities consistent with local and State plans developed under the Solid Waste Disposal Act, 42 U.S.C. § 6901 et seq., and a local structure for responding to discharges or releases. (See Appendix C.)

D. OPA Facility and Vessel Response Plans

This section describes and cross references the regulations that implement sections 311(j)(5) of the CWA. A tank vessel, as defined under section 2101 of title 46, U.S. code, and offshore facility, and an onshore facility that, because of its location, could reasonably expect to cause substantial harm to the environment by discharging into or on the navigable waters, adjoining shorelines, or exclusive economic zone must prepare and submit a plan for responding, to the maximum extent practicable, to a worst

case discharge, and to a substantial threat of such a discharge, of oil or a hazardous substance. These response plans are required to be consistent with applicable Area Contingency Plans. (listing of referenced facilities found in Appendix B)

E. Area Response Drills

The OSC periodically shall conduct drills of removal capability (including fish and wildlife response capability), without prior notice, in areas for which ACPs are required by 300.210(c) of the NCP and under relevant tank vessel and facility response plans.

F. EPCRA Local Emergency Response Plans

The regulations that implement EPCRA are codified at 40 C.F.R. Part 355.

Each LEPC is to prepare an emergency response plan in accordance with Section 303 of EPCRA and review the plan once a year, or more frequently as changed circumstances in the community or at any subject facility may require. Such local emergency response plans should be closely coordinated with applicable ACPs and State emergency response plans. To assure coordination with EPCRA, it is recommended that the Area Committee include appropriate LEPC or other EPCRA representation.

Appendix D.1 and D.2 contains a listing of state LEPCs and SERCs, respectively.

G. List of Regional and State Oil/Hazardous Materials Response Plans

1. Regional Contingency Plans

- Region IV Col and Hazardous Substances Contingency Plan This plan is maintained and is available for inspection at:

U.S. Environmental Protection Agency 345 Courtland Street Atlanta, GA 30365 (404) 881-3931

- Region V Oil and Hazardous Substances Contingency Plan. This plan is maintained and is available for inspection at:

> U.S. Environmental Protection Agency 230 South Dearborn Street Chicago, IL 60604 (312) 896-7591

- Region VI Oil and Hazardous Substances Contingency Plan. This plan is maintained and is available for inspection at:

U.S. Environmental Protection Agency First Interstate Bank Tower at Fountain Place 1445 Ross Avenue Dallas, TX 74202 (214) 655-2222

- Region VIII Oil and Hazardous Substances Contingency Plan. This plan is maintained and is available for inspection at:

> U.S. Environmental Protection Agency 999 18th Street, Suite 500 Denver, CO 80202-2405 (303) 293-1788

2. List of State Contingency Plans

- Missouri Hazardous Substance Emergency Response Plan
- Iowa's Hazardous Materials Plan
- Nebraska
- Kansas

3. List of other Contingency Plans maintained by Region VII

- Upper Mississippi River Spill Response Plan and Resource Manual.
- Draft Northern New Madrid Risk Area
 Supplement, Emergency Support Function #10,

Hazardous Materials Plan for a Federal Response to a Catastrophic Disaster.

H. Worst Case Discharge

Section 311(j)(4)(C)(i), of the CWA, requires that the ACP, when implemented in conjunction with the NCP, be adequate to remove a worst case discharge. Region VII determines a worst case discharge to involve ANY discharge or threat of a discharge, in significant quantities to impact public health, welfare or the environment, where the parties responsible for the threat or discharge are unwilling or unable to perform the required response actions.

Below is a oil spill scenario that is applicable to Region VII. The following information is a parameter to cover what may be a worst case discharge. The information will be updated as more FRPs are received and as other regulations are developed.

OIL SPILL SCENARIO (WORST CASE):

Assumptions: In all cases, assume parties contributing to the spill are not taking or cannot take appropriate response action.

Hazard Assessment: Each State within Region VII is unique but all also share some common concerns. By looking at the past history of incidents (i.e. natural or technological accidents) the inevitable future occurrences can be better prepared for. A facility located near a fault line, river's edge or related natural hazard, has the potential to cause or be economically impacted or affect ESAs. Understanding the community or surrounding area is crucial for proper planning. An industry which produces, uses, or stores oil may result in a high risk of technological hazard to the community. Although the community may not appear to be at risk, the facility may be close to a highly vulnerable area.

Vulnerability Analysis: Particular points of environmental and economic sensitivity include, but are not limited to the Environmentally and Economically Sensitive Areas, for Iowa, Kansas, Missouri and Nebraska, listed in Appendices A.2 and A.3.

Seasonal/Geographic Considerations:

-High Risk Vulnerability

Each state has the potential for flooding, freezing ice, tornados, etc. Earthquakes are potential disasters in Southeast Missouri and to a lesser extent along the Humboldt Fault, which trends from Omaha, Nebraska, southwest across Kansas to Oklahoma City, Oklahoma.

EPA Region VII in development of a worst-case scenario is listing a collection of suggestions and checklists to provide quick access to critical information to assist in formulating a facility's worst case discharge. This compilation is neither a textbook nor a substitute for training, qualified technical advice, or common sense. It only addresses response to oil spills that could reach water.

RESPONSE PRIORITIES

The following points should be considered when attempting to minimize effects of an oil spill.

Health and safety are the first priorities.

Pay attention to:

- Fire and explosion potential of vapors at or near the spill site.
- Potential toxic effects of the spill and chemical countermeasures.
- Proper use of safety equipment.
- Hyperthermia, hypothermia.
- Small boat safety.
- Helicopter and aircraft safety.

Speed is essential in recovery efforts

- Oil spreads and drifts rapidly.
- Evaporation rapidly increases oil viscosity.
- Oil can be burned more readily when fresh.
- Sustained Combustion requires at least 0.1 inch (2-3 mm) of slick thickness.
- Oil is usually easier to deal with in water than when it has contacted the shore.

CLEANUP PRIORITIES

The nine oil spill remediation steps are:

1. Stop the discharge.

- 2. Assess amount and type of spilled oil via surveillance and tracking.
- 3. Follow the procedures defined in the contingency plans, with modification as necessary. Document all actions.
- 4. Contain and remove spilled oil at the source.
- 5. Protect threatened resources and monitor shorebound oil.
- 6. Treat or contain and remove offshore oil that has escaped the primary control operation at the source.
- 7. Skim the oil that has pooled along the shore in natural collection areas such as sloughs and coves.
- 8. Clean up shorelines where oil has stranded, to the extent possible and advisable.
- 9. Dispose of collected materials.

SHORTFALLS

There are potential shortfalls which might occur in any type of oil spill response. Some of those shortfalls could be:

- 1. Equipment:
 - Logistics of staging and operating equipment
 Limited availability of specialized equipment
- 2. Personnel: Additional personnel will come in from outside the area
- 3. Minimum response times: Delays in response due to the remoteness of the spill location

PROCEDURES AND CRITERIA FOR TERMINATING THE CLEANUP

EPA Region VII cleanup procedures will continue until the determination is made jointly by the Federal and State OSCs, Natural Resource Trustees, and Responsible Party decide to cease cleanup operations.

RESPONSE GUIDELINES ANNEX- Under development.

Region VII contains very diverse industries and ecological zones. A spill of one type and size might have a minor impact on one area and might be devastating in

another. Procedures on response guidelines will be written for Region VII, and incorporated into this plan.

SUMMARY

To prepare for the inevitable oil spill incident, the responder needs to know the characteristics of the size and type of possible occurrences. Looking at the spill history of an area is a good way to anticipate what is likely to happen in the future. All oil spills in violation of section 311(b)(3) of the CWA are to be reported to the National Response Center (NRC) 1-800-424-8802. When spills are reported, information is disseminated to the USCG/EPA Federal OSC where they occurred, for possible response This mechanism for recording spills is labeled the actions. Emergency Response Notification System (ERNS). Researching the ERNS data for Region VII from 1988, and then separating out the oil-specific information, resulted in a listing of typical large oil spills within this region. States were also requested to submit their spill history data to help hypothesize a worst case discharge in this region.

CATEGORIES:

Specific spill categories were researched from the ERNS database in the four-state region. These categories are: pipelines, fixed facilities, highways, underground tanks, aboveground tanks and railways. Spill data on vessels was obtained from the USCG. (See Table II)

The following matrices (<u>Tables I & II</u>) show the oil spill history for the four states in Region VII. The data represent both technical and natural accidents. The data are taken from Federal and state records of spill history (see Appendix F) listed by source since 1988.

TABLE I. Oil Spill History for Iowa, Kansas, Missouri and Nebraska. (Since 1988)

STATE:	Iowa	Kansas	Nissouri	Nebraska
SOURCE:				
Pipeline	12,000gal/ No. 2 Fuel Oil	165,000 gal/Crude Oil	864,000gal/C rude Oil	40,000 gal/JP-4 Jet Fuel
Fixed Facility	38,830gal/ Diesel	44,000/Crud e Oil	20,000 gal/ Gasoline	3,000 gal/ Diesel
Highway	9,000gal/ Gasoline	35,000 lbs/VAC-10 Asphalt	20,000gal/ Gasoline	8,800gal/ Gasoline
Underground Tank	10,000gal/ Gasoline	1,780gal/ No. 2 Diesel Fuel	11,000/ No. 2 Fuel Oil	4,500gal/ Unleaded Gasoline
Above Ground Tank	29,480gal/ Gasoline	4,135gal/ Gasoline	20,000gal/ Diesel	765,795gal/ No. 2 Fuel
Railway	4,000gal/ No. 2 Diesel Fuel	5,500gal/ Gas Oil	23,000gal/ Petroleum	270 Tons/ Coal Tar

Source: ERNS Database & State Spill History, see Appendix F.

Below is a table representing the worst case discharge possibility for a vessel on the Mississippi or Missouri River.

Table II. Worst Case Discharge - Vessel

	Capacity	Contents
Mississippi River	Maximum: 27,000 Barrels/Barge Barges = usually 12 barges, Maximum = 20, up river	
Missouri River	Maximum: 23,000 Barrels/Barge	Fuel oil, asphalt, & caustic soda

Source: USCG

I. Adequacy to Remove a Worst Case Discharge

This ACP, when implemented in conjunction with the NCP, is adequate to mitigate and/or prevent a substantial threat of a worst case discharge. Private industry and local emergency responders provide the front-line defense in response to all spills, including a worst case discharge.

1. Facility Response Plans

Certain facilities—those which pose a significant and substantial threat to the environment, in order to be granted approval to operate without an approved FRP, have provided certification that they have, by contracts or approved means, the resources capable of removing a worst case discharge (WCD) from their facility. In Region VII, all of the facilities that have been determined to pose such a risk have provided an adequate certification. All FRPs will be reviewed for approval, which will include adequate resources to remove a facility WCD. Among the requirements for approval, Facility Response Plans will also be required to be consistent with the NCP and ACP, and should be consistent with local emergency plans, prepared under the EPCRA.

2. Local Emergency Plans

The authority and responsibility for planning and exercising local emergency plans is vested at the local government level, through requirements of EPCRA. The State, localities and industry have the most detailed knowledge of the local area and the situation at risk. Accordingly, LEPCs are in the best position to develop plans which adequately address hazards in their community. Future Area Committee membership and participation will be solicited from LEPCs and appropriate local responders.

Adequacy to remove a worst case discharge is currently addressed through existing contingency plans and guidance manuals. Among these is the RCP, which outlines federal resources available to the OSC from RRT agencies, as well as Regional response policies. The local emergency contingency plan outlines resources available from outside of RRT agencies response protocols are outlined in the RCP. This ACP also lists resources which are not found in any of the referenced plans.

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The different categories of worst case discharges are outlined in Tables I & II. In assessing the adequacy of removal of these, the equipment section of this plan (Appendix C.2) includes contractors from outside of the state which may be accessed for additional equipment.

In terms of prevention of an oil spill, including a worst case discharge, the Spill Prevention Control and Countermeasures (SPCC) Program, administered through EPA, requires all non-transportation-related facilities within EPA's jurisdiction, to develop plans necessary to contain a discharge of oil and prevent it from reaching navigable waters. This program is much broader than contingency planning. It requires facilities to develop and design plans that include the installation of equipment, most notably secondary containment systems, such as dikes, barriers and diversionary flow paths, so that spills into waters of the United States will be prevented.

When such design and engineering controls are not practicable for a facility, the owner must provide a detailed contingency plan following the criteria outlined in 40 C.F.R. Part 109. Some of these criteria include the establishment of notification procedures, identification of resources, and provisions for specific actions. For transportation-related onshore and offshore facilities, such as vessels, the Department of Transportation (DOT) issues regulations concerning the safe handling of hazardous materials. The Minerals Management Service of the Department of the Interior is also responsible for certain offshore fixed facilities.

In order to check the adequacy of a facility to remove a worst case discharge, the Federal lead agency, EPA or USCG, shall periodically conduct drills of removal capability, without prior notice, in areas for which ACPs are required and under relevant tank vessel and facility response plans. The drills are to be conducted under the National Preparedness for Response Exercise Program (PREP), and may include participation by Federal, State, and local agencies, the owners and operators of vessels and facilities in the area, and private industry.

This ACP shall integrate approved vessel, offshore facility, onshore facility, pipeline, and bulk transportation response plans. The structure that currently is the basis for integration of inland and coastal ACPs is the RRT. Regional response policies and preparedness

activities, concerning both inland and coastal issues, are currently addressed through the RRT, and outlined in the RCP, which is approved by BOTH the EPA and USCG co-chairs.

IV. OPERATIONAL RESPONSE PHASES FOR OIL REMOVAL

A. Response

The phases of operational response for oil, including: (1) discovery and notification, (2) preliminary assessment and initiation of action, (3) containment, countermeasures, cleanup, and disposal, and (4) documentation and cost recovery, are outlined in the NCP. (40 C.F.R. §§ 300.300 - 300.320). The relationship of the Federal agencies (RRT) is described in the RCP.

OPA 90 provides additional authority for carrying out a response. Under Section 311(c) of the CWA, the OSC as the President's designate may:

- 1. remove or arrange for the removal of a discharge and mitigate or prevent a substantial threat of a discharge, at any time;
- 2. direct or monitor all Federal, State, and private actions to remove a discharge; and
- 3. remove and, if necessary, destroy a vessel discharging, or threatening to discharge, by whatever means are available.

Furthermore, if a discharge results in a substantial threat to the public health or welfare of the United States (including but not limited to fish, shellfish, wildlife, other natural resources, and the public and private beaches and shorelines of the United States), the OSC shall direct all Federal, State, and private actions to remove the discharge or to mitigate or prevent the threat of a discharge.

B. Fish and Wildlife Response Plan

OPA 90 amended Section 311(d) of the CWA, 33 U.S.C. § 1321(d), to include a fish and wildlife response plan, developed in consultation with the USFWS, NOAA, and other interested parties (including State fish and wildlife conservation officials), for the immediate and effective protection, rescue, and rehabilitation of, and the minmumization of risk of damage to, fish and wildlife

resources and their habitat that are harmed or that may be jeopardized by a discharge.

See Appendix A.1 of the ACP for the Fish and Wildlife and Sensitive Environments Plan.

c. Funding

The OPA effectively permits many other Federal agencies, the States and Indian Tribes access to the Oil Spill Liability Trust Fund (OSLTF) for a variety of purposes. The Fund can be used following an incident for removal actions, natural resource issues, and damages. Access to the Fund is partially governed by OPA 90, 33 U.S.C. § 2712. Local, State, tribal, or Federal agencies may get funding for removal costs through the Federal OSC or by submitting a claim.

There are six basic categories of recoverable damages:
(1) natural resource damages; (2) damages to real and
personal property, including the loss of such property; (3)
loss of subsistence use of natural resources; (4) loss of
tax and other revenues; (5) loss of profit or earning
capacity; and (6) increased cost of public services— are
receivable only by governments. The other categories are
receivable by private parties as well as by governments.

The NPFC, which is responsible for implementing the Fund, may be accessed through the NRC.

Liability Limitations:

OPA 90 sets limits of liability that apply to all removal costs and damages sought under OPA 90. The limits may be adjusted for inflation every 3 years based upon the consumer price index. The limits set by OPA 90 are:

- Tank vessels: \$1,200 per gross ton; \$10 million if greater than 3,000 gross tons; \$2 million if 3,000 gross tons or less;
- Any other vessel: \$600 per gross ton or \$500,000 whichever is greater;
- Offshore facility except Deep Water Ports: the total of all removal costs plus \$75,000,000;

- Onshore facility and Deep Water Port: \$350,000,000. 33 U.S.C. § 2704.

There are certain exceptions to these limits of liability. These limits do not apply:

- If the incident was caused by gross negligence or willful misconduct;
- If the incident was a result of a violation of applicable Federal safety, construction, or operating regulations; or
- If the responsible party fails to report the incident, provide all reasonable cooperation and assistance required by a response official or without sufficient cause fails to comply with an order issued by the Federal OSC. [33 U.S.C. § 2704(c)(1)(2)].

In addition, OPA 90 does not preempt State laws regarding liability, so in areas where State law places a higher limit, compensation for damages up to the liability limit established by the State law may be pursued.

State Access to the fund:

Coast Guard Commandant Instruction 16465.1 defines documentation for enforcement and cost recovery under 33 U.S.C. § 2712(d). (See Technical Operating Procedures for State Access Under Section 1012(d)(1) of the OPA (Enclosure (1) to NPFCINST 16451.1)).

Under development: Details of requirements for documentation and cost recovery, Appendix ${\sf E}$

OPA 90 allows the State governor to request payments of up to \$250,000 from the OSLTF for removal costs required for the immediate imoval of a discharge, or the mitigation or prevention of a substantial threat of a discharge, of oil. Requests are made directly to the Federal OSC who will determine eligibility. A State that anticipates the need to access the Fund must advise the NPFC in writing of the specific individual who is designated to make requests. The designation must include the person's name, address, telephone number, and title or capacity in which employed.

Eligibility for State Access:

The OSC will determine whether the State has the ability to respond based on the criteria specified by the NPFC. If the State is capable, the OSC will contact the USCG case officer to authorize access to the fund. If the OSC denies State access to the fund, he/she will detail the reason for denying access (i.e., which of the criteria were not met by the State).

Required Recordkeeping:

The State shall maintain records of expenditures of fund monies including, but not limited to:

- Daily expenditures for each individual worker, giving the individual's name, title or position, activity performed, time on task, salary or hourly rate, travel costs, perdiem, out-of-pocket or extraordinary expenses, and whether the individual is normally available for oil spill removal.
- Equipment purchased or rented each day, with the daily or hourly rate.
- Miscellaneous materials and expendable purchased each day.
- Daily contractor or consultant fees, including costs for their personnel and contractor-owned or rented equipment, as well as that of any subcontractor.

The State shall submit a copy of these records and a summary document, stating the total of all expenditures made, to the NPFC within 30 days after completion of the removal actions. A copy of these documents shall also be submitted to the Federal OSC.

State Access to Other Funds: under development.

V. HAZARDOUS SUBSTANCE RESPONSE

A. General

Subpart E of the NCP, 40 C.F.R. Part 300, Subpart E, establishes methods and criteria for determining the appropriate extent of response authorized by CERCLA and CWA.

In general, the OPA 90 fund is available primarily for the cleanup actions of an oil spill. The purposes of the fund are outlined in 33 U.S.C. § 2712.

CERCLA funds are available for the payment of removal costs for incidents involving hazardous substances, contaminants or pollutants.

B. Response

The relationship of the Federal agencies (RRT) is described in the RCP. In most instances, response personnel, equipment and resources involved in oil response and in hazardous substances response are the same for a given Area. Application of fund monies from CERCLA or OPA 90 may require evaluation after the cleanup based on the documentation obtained during the response. Additional detail regarding joint OPA 90 and CERCLA response is addressed in the RCP.

For hazardous substance response only, see appropriate EPCRA, SERC and LEPC HAZMAT response plans.

VI. STATE AND LOCAL INVOLVEMENT IN RESPONSE

A. General

Subpart F of the NCP addresses State involvement in hazardous substance response and is incorporated herein by reference. 40 C.F.R. Part 300, Subpart F. Every state governor is asked to assign an office or agency to represent the state on the RRT. The state's representative may participate fully in all facets of RRT activity and shall designate the appropriate element of the state government that would undertake direction of state-managed oil or hazardous substance releases. Each state RRT member also represents and coordinates the RRT involvement of various other state, county, and municipal organizations. The LEPCs are responsible for the development and maintenance of local emergency response plans in accordance with EPCRA, Sections 301 to 303. The local emergency response plan must be reviewed by a SERC. The RRTs may review the plans and provide assistance if the SERC or LEPC, through the State RRT representative, so requests. Federal contingency plans provide for coordination with local government organizations such as county and municipal governments. This is especially important for traffic control, land access, and disposal of oil or hazardous materials removed in response operations. State conservation departments, through their State's representative on the RRT, shall coordinate wildlife preservation measures for non-migratory animals. necessary, the closing of areas to commercial fishing due to health hazards will be accomplished by the appropriate state agency. Migratory animals are coordinated with the U.S. Fish and Wildlife Service.

1. The State of Iowa

The Iowa Department of Natural Resources (IDNR) is the enforcement agency for the environmental laws in the State of Iowa and coordinates response to spills. If a threat to human safety exists in a pollution case, IDNR coordinates requested assistance from state agencies, and acts as the liaison with Federal officials. Agency personnel are available 24 hours a day for technical assistance to abate the exposure of citizens to hazardous materials, and for investigation of pollution incidents and assessment of environmental damages. IDNR can provide laboratory services and

water quality survey assistance. Request for disposal sites and incinerators for waste oil should be coordinated through this department which represents the state for all RRT activity.

The Iowa Department of Public Defense, Emergency Management Division, coordinates disaster response actions and provides guidance and assistance. In a response, the Division provides assistance to the lead agency and local government on coordinating relocation assistance and supporting evacuated citizens.

2. The State of Kansas

The Kansas Department of Health and Environment (KDHE) is the lead agency in the state for enforcement of environmental laws and response to oil and hazardous substances release incidents. A member of this department is the RRT representative.

3. The State of Missouri

The Missouri Department of Natural Resources (MDNR), Division of Environmental Quality, will provide response assistance on hazardous materials incidents and oil spills. A member of this department is the RRT representative.

4. The State of Nebraska

The Nebraska Department of Environmental Quality (NDEQ) will coordinate state responses to spills and can provide laboratory services and water quality survey assistance. A member of this department is the RRT representative.

NOTE: States are being asked to submit their local oil response capabilities and procedures to be annexed into this document.

B. EPA/State/Local MOA (MOU)

The Federal, State, and local MOAs (MOUs) may establish the nature and extent of EPA and State and local interaction during EPA-lead and State- or local-lead responses (including Indian tribes). EPA shall enter into MOU discussions if requested by a State or local government.

Refer to the NCP, 40 C.F.R. § 300.505, for a discussion of State MOUs.

Regional MOUs

Various MOUs and Interagency agreements (IAGs) between RRT member agencies are listed in the RCP under Annex VII, "Interagency Support Agreements." A copy of the USCG/EPA MOU is listed in Annex 1 of this Plan.

C. Requirements for State Involvement in Enforcement Responses and Site Remedy

[Reserved]

***Under development - enforcement procedures and protocols

D. State Involvement in EPA/USCG-lead Enforcement Negotiations

EPA/USCG shall notify States of response action negotiations to be conducted by EPA/USCG with potentially responsible parties during each fiscal year.

The State shall notify EPA/USCG of such negotiations in which it intends to participate.

The State is not foreclosed from signing a consent decree if it does not participate substantially in the negotiations.

E. State Involvement in Removal Actions

For Fund reimbursement, the State must fulfill requirements established by the NPFC including PRP determination and documentation requirements. See Appendix $^{\rm E}$ (under development).

VII. TRUSTEES FOR NATURAL RESOURCES

The OSC shall ensure that the trustees for natural resources are promptly notified of discharges. The OSC shall coordinate all response activities with the affected natural resource trustees and shall consult with the affected trustees on the appropriate removal action to be taken. Where and when the OSC tecomes aware that a discharge may affect any endangered or threatened species, or their habitat, the OSC shall consult with the appropriate natural resource trustee.

Designation of Trustees:

The President is required to designate in the NCP those Federal officials who are to act on behalf of the public as trustees for natural resources. Federal officials so designated will act on behalf of the public to restore natural resources which have been injured, lost or destroyed as a result of a hazardous substance release or oil discharge. As defined in Section 101(16) of CERCLA, and OPA section 1001.20, natural resources include: land, fish, wildlife, biota, air, water, drinking water supplies, and other such resources belonging to, managed by, held in trust by, appertaining to, or otherwise controlled by the United States (including the resources of the exclusive economic zone).

Federal

The following Federal officials have been designated by the president as trustees for natural resources within Region VII:

- A. The Secretary of the Interior, including:
 - 1. National Parks, National Monuments, National Historic Sites, National Recreation Areas, Wild and Scenic Rivers, etc.
 - 2. U.S. Fish and Wildlife Service: National Wildlife Refuges, National Fish Hatcheries, Waterfowl Production Areas; migratory birds and endangered species.

- 3. Bureau of Reclamation: Lands and waters managed or protected in association with Reclamation dams, reservoirs, and water conveyance systems.
- 4. Bureau of Land Management: Public lands, Federally-owned minerals (underlying private as well as public lands).
- 5. Bureau of Indian Affairs: Indian Reservations, and other lands or natural resources held in trust for an Indian Tribe (including off-reservation natural resources).

Contact: DOI RRT Representative.

- B. Secretary of Agriculture
 - 1. U.S. Forest Service: national Forests, National Grasslands.

Contact: USDA/Forest Service RRT Representative.

- C. Secretary of Defense
 - 1. Military Lands

Contact: DOD U.S. Army RRT Representative.

2. Corps of Engineers Project Lands

Contact: USACE RRT Representative.

D. Secretary of Energy

DOE lands and facilities

Contact: DOE RRT Representative

Note: Refer to Appendix D.3 for RRT Representatives.

State

Natural resources under state jurisdiction include all fish, wildlife and biota (including a shared trusteeship with the federal government for certain plants and animals; air, surface and ground water, and land. State trustees for natural resources within Region VII are:

Iowa - Director of the Iowa Department of Natural Resources.

Kansas - Secretary of the Kansas Department of Health and Environment.

Missouri - Director of the Missouri Department of Natural Resources.

Nebraska - Director of the Nebraska Department of Environmental Quality.

Indian Tribes

The Tribal Chairman or head of the Tribal governing body, or person designated by tribal officials, acts as the trustee.

Natural resources under Indian Tribal trusteeship include lands and other natural resources belonging to, managed by, controlled by, or otherwise appertaining to the Tribe; or held in trust for the Tribe; or belonging to a member of the Tribe (if subject to a trust restriction on alienation).

Section 300.600 of the NCP designates the natural resources for which each Federal trustee is responsible, and is incorporated herein by reference. [40 C.F.R. § 300.600].

Pursuant to 33 U.S.C. § 2706(b), the governor of each State shall designate State and local officials who may act on behalf of the public as trustee for natural resources and shall notify the President of the designation.

The head of any foreign government may designate the trustee who shall act on behalf of that government as trustee for natural resources.

Function of Trustees:

Under 33 U.S.C. § 2706(c), natural resource trustees shall:

- Assess natural resource damages for the natural resources under their trusteeship; and
- Develop and implement a plan for the restoration, rehabilitation, replacement, or

acquisition of the equivalent, of the natural resources under their trusteeship.

The Secretary of the Interior shall also be trustee for those natural resources for which an Indian Tribe would otherwise act as trustee in those cases where the United States acts on behalf of the Indian Tribe.

VIII. PARTICIPATION BY OTHER PERSONS

Subpart H of the NCP, 40 C.F.R. § 300.700, addresses participation by other persons and is incorporated herein by reference.

Participation by private parties in both planning and response is encouraged. Potentially Responsible Parties (PRPs) are encouraged to undertake response actions in an adequate and timely manner, based on the judgement of the FOSC.

Landowners are also encouraged to participate in planning and response. The landowner is a valuable resource due to his/her local knowledge. The landowner, to the extent practical and based on the Federal OSC's judgement, may be included in the planning and response activities, under direction of the Federal OSC. Landowners that provide access to or are affected by a spill have jurisdiction over their lands, and warrant special consideration by the responding agency or unified command. In the event that an incident poses, or has the potential to pose, an imminent threat to human health and/or the environment, it is the best interest of the landowner to provide access to a Federal OSC.

In addition, OPA 90 authorized filing of claims against the Oil Spill Liability Trust Fund (OSLTF) by other persons. To file a claim, contact the Director, NPFC, Suite 1000, 4200 Wilson Boulevard, Arlington, VA 22203-1804, telephone (703) 235-4756.

Details on Area Committee non-governmental, ex-officio participants (e.g., industry, volunteer groups, landowners, etc.) are under development and will be provided in Appendix D.4 of the ACP. (under development)

IX. ADMINISTRATIVE RECORD FOR SELECTION OF RESPONSE ACTION

Subpart I of the NCP, 40 C.F.R. § 300.800, addresses administrative recordkeeping for selection of response actions and is incorporated herein by reference to the extent that it applies to emergency response.

X. CHEMICAL COUNTERMEASURES

Subpart J of the NCP, 40 C.F.R. § 300.900, addresses the use of dispersants and other chemical countermeasures, and is incorporated herein by reference. In addition, Section 311(j) of the CWA requires that each Area Committee work with State and local officials to expedite decisions for the use of dispersants and other mitigating substances and devices.

Subpart J, 300.900 of the Region VII, Regional Contingency Plan states that Region VII does not promote the use of dispersants, other oil emulsifiers, surface collecting agents, biological additives, burning agents or miscellaneous oil spill control agents on surface water, particularly near sensitive wetlands or water supplies (freshwater systems). The rest of Subpart J, 300.900 is herein referenced to the extent that it is also observed by this ACP.

XI. FEDERAL FACILITIES

[RESERVED]

APPENDIX A

- 1. FISH AND WILDLIFE AND SENSITIVE ENVIRONMENTS PLAN
- 2. ENVIRONMENTALLY SENSITIVE AREAS
- 3. ECONOMICALLY SENSITIVE AREAS
 - A.3.a. Region VII Surface Water Intakes
 - A.3.b. Missouri and Mississippi River Water Intakes
- 4. METROPOLITAN STATISTICAL AREAS (MSAs)

APPENDIX A.1

FISH AND WILDLIFE AND SENSITIVE ENVIRONMENTS PLAN

FISH AND WILDLIFE AND SENSITIVE ENVIRONMENTS PLAN REGION VII AREA CONTINGENCY PLAN

FISH AND WILDLIFE AND SENSITIVE ENVIRONMENTS PLAN REGION VII AREA CONTINGENCY PLAN

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1.0 PURPOSE

Oil or hazardous substances spilled into the environment may have a wide range of ecological consequences. The severity of the consequences varies depending on the material spilled and the ability of the ecosystem to degrade or resist the spilled product. Reducing the overall ecological impact of a spill event and the impacts associated with response activities is the goal of this Fish and Wildlife and Sensitive Environments Plan (FWSEP, also referred to as 'annex').

The purpose of this annex is to provide the Federal On Scene Coordinators (OSC) in U.S. EPA Region VII (Region VII) with the information he/she needs to identify sensitive environments and provide appropriate response strategies for limiting the overall negative environmental effects of a spill. The annex will also aid in the development of Facility Response Plans required by 40 CFR 112.20.

2.0 SCOPE

The Region VII FWSEP develops a general overview of the sensitive areas and provides the OSC with information to assist in the sensitive environment identification process. Deciding on response techniques before a spill occurs is imperative to provide for a coordinated, immediate and effective response. The FWSEP aids in the selection of the appropriate spill protection, recovery and cleanup techniques that will help to minimize the ecological impacts of a spill.

The task of identifying all the environmentally sensitive areas in Region VII and prioritizing them is an enormous undertaking, and will be done gradually. The FWSEP helps to identify sensitive environments that could be impacted by spills into water bodies within the Region.

The FWSEP also establishes procedures and policy for meeting the objectives set forth in the National Contingency Plan (NCP); and should be used to aid responders and planners in prioritizing and evaluating response techniques for spills in various freshwater environments and shoreline habitats. This annex aids the Area Committee in identifying special areas of concern. Those special areas of concern will be examined in detail in the Sub-Area planning phase of the Area Contingency Plan (ACP) development.

3.0 OBJECTIVES

The National Contingency Plan (40 CFR §300.210(c)(4)(i)) delineates the objectives of this annex. The objectives have been organized into four general sections:

3.1 Identify and Establish Priorities for Resources at Risk

Natural resources, other sensitive resources, and appropriate resource trustees are identified. Agencies to be notified and consulted in establishing incident-specific priorities for the protection of these resources are provided. Sensitive resources identified include environmentally sensitive lands, freshwater environments, and areas of economic significance (Section 4.0).

3.2 Determine Environmental Effects of Response and Countermeasures

The probable impacts of various response methods on general environments and habitats are provided. Methods for determining and approving the appropriate response techniques for specific environments and habitats, and monitoring the effectiveness of response activities are outlined (Section 5.0).

3.3 Identify Fish and Wildlife Response Capabilities

State and Federal response capabilities and the contacts for permitting wildlife rescue and rehabilitation are outlined. Prearranging and acquiring the appropriate response equipment, personnel and mutual aid agreements and defining the OSHA training requirements for volunteers assigned to fish and wildlife rescue are also discussed (Section 6.0).

3.4 Evaluate the Interface of the ACP with Non-Federal Plans

The compatibility of this annex with non-Federal response plans on issues affecting fish, wildlife, their habitats and sensitive environments is evaluated (Section 7.0).

4.0 PRIORITIZATION OF RESOURCES AT RISK

To ensure that proper measures are taken to minimize the impacts of a spill on ecological and economic resources, the OSC or Responsible Party must be aware of sensitive environments and/or important resource areas. Identifying sensitive areas should be accomplished before a spill event occurs. Environmentally sensitive areas were identified by the various Natural Resource Trustees and other natural resource management agencies. Response strategies vary depending on the material spilled and the spill location. It is critical that responders realize that an immediate, but improper response, may be more damaging than waiting for the mobilization of a proper response. Critical to choosing an appropriate response is understanding the aquatic environments and habitats, and their seasonal sensitivities relative to one another.

4.1 Notification of and Consultation with Natural Resource Trustees

Prompt notification of and consultation with the natural resource trustees and other natural resource management agencies is imperative so that their expertise can be utilized in identifying and

protecting sensitive environments.

Pursuant to Subpart G of the National Contingency Plan, the following agencies have been designated as trustees for natural resources:

Department of the Interior

Department of Agriculture, Forest Service

Department of Defense

Department of Energy

Kansas Department of Health and Environment

Nebraska Department of Environmental Quality

Iowa Department of Natural Resources

Missouri Department of Natural Resources

Appropriate contacts within these agencies are included in Appendix D.

4.2 Consultation with Natural Resource Managers

In addition to the designated natural resource trustees, there are numerous Federal and State agencies with land and resource management responsibilities and/or expertise which need to be consulted regarding removal actions:

Department of the Interior

- U.S. Fish and Wildlife Service (USFWS)
- National Park Service

Department of Agriculture

- Forest Service

State of Iowa

- Department of Natural Resources

State of Kansas

- Wildlife and Parks Department

State of Nebraska

- Game and Parks Commission
- Natural Resources Commission
- Department of Water Resources

State of Missouri

- Department of Natural Resources
- Department of Conservation

Appropriate contacts within these agencies are included in Appendix D. Figure 1: Protection Priorities Mechanism [To aid in establishing protection priorities, a flow chart outlining the sensitive resources and the appropriate contacts will be developed.]

4.3 Regional Description and Sensitive Areas

There are many national and state wildlife refuges, fish hatcheries, and wild and scenic river reaches, Federal water fowl production areas, state wildlife management areas, national and state parks, monuments, preserves, recreational areas, primitive archaeological and historical sites, heritage program areas and other important resources located on or near the rivers and lakes of Region VII.

Appendix A divides the Region by state and lists threatened and endangered species, critical habitats, environmentally sensitive areas, recreation areas, public and private water intakes. The Natural Resource Trustee or other contact is listed in Appendix D, and the phone numbers for contacts who should be notified and consulted. The appendix can be used by responders to quickly identify the location of sensitive areas.

4.3.1 Threatened and Endangered Species

Threatened and endangered (T&E) species inhabit or are located near, almost every major body of water in Region VII. The USFWS provides an updated list of T&E species by county for the Region annually.

4.3.2 Freshwater Environments

Freshwater environments can be divided into three broad categories: standing water, such as lakes and ponds; and flowing water, which includes streams and rivers: and wetlands.

Lakes and ponds

The near shore areas of standing freshwater environments typically support diverse and abundant aquatic plant and animal communities. Because of the water's relative stillness, spilled oil would tend to collect and not be dispersed by wind, waves or currents. However, wind could disperse oil in a large pond or lake to areas along the shoreline, such as emergent marshes. Lakes, ponds and their dependent populations are, therefore, more vulnerable to an oil spill than freshwater environments that are constantly moving, such as streams and rivers.

Streams and Rivers

Oil entering a stream or river will typically move downstream. Oil entering slower flowing streams tends to remain on the surface while oil discharged to a high velocity turbulent stream disperses throughout the entire stream water column. As a result of the turbulent agitation, oil may become trapped in sediment along the stream bed, resulting in mortality to benthic organisms.

Stream reaches can be subdivided into three categories: low gradient; moderate gradient; and high gradient.

- Low gradient portions of a stream are characterized by: meandering channels; moderate currents; wide zones of associated riparian vegetation; sand bars; intermediate oil residence time; numerous collection sites; and restricted mixing into the water column.
- Moderate gradient portions of a stream are characterized by: intermittent rapids; moderately wide channels; associated riparian vegetation; brisk currents; sand and gravel bars; short oil residence time; few collection sites; and significant mixing into the water column.
- High gradient portions of a stream are characterized by: numerous rapids; narrow associated riparian vegetation; strong currents; coarse gravel sediments; short oil residence time; no collection sites; and intense mixing into the water column.

Wetlands

Wetlands are highly sensitive to oil spills. Wetlands such as freshwater swamps, marshes and prairie potholes act as natural hatcheries, ,migratory bird and aquatic furbearer brood-rearing and feeding areas, and watering areas for terrestrial and aquatic wildlife. Therefore, they are crucial areas for wildlife support.

The Region's seasonality is a major consideration in preparing and planning for a response. Ice and snow in the winter, fluctuations of river and stream water levels, and the migratory patterns of wildlife all need to be addressed.

The classification of environmentally sensitive areas, their administering agencies and the statutory authority include, but are not limited to:

- Critical Areas under the Clean Lakes Program [EPA, States, section 314 Clean Water Act, (33 USC §1324)];
- Critical Habitats for Federal Designated Endangered or Threatened Species [USFWS, Endangered Species ACT, (16 USC §1531, et seq.; 50 CFR 424.02)];

- Designated Federal Wilderness Areas [BLM, USFS, NPS, USFWS, National Wilderness Preservation Act (16 USC §1131, et seq.)];
- Federal Designated or Proposed Endangered or Threatened Species [USFWS, Endangered Species Act (16 USC §1531, et seq.; 50 CFR 424.02)]
- Federal and State Designated Wild and Scenic Rivers [BLM, USFS, NPS, USFWS, States, National Wild and Scenic Rivers Act, (16 USC §§1271-1287)];
- National Conservation Areas [USFWS, Refuge Recreation Act, (16 USC § 460k, et seq.)];
- National Wildlife Refuges [USFWS, National Wildlife Refuge Administration Act of 1966 (16 USC §§ 668dd-668ee) or comparable state law];
- National Parks, National Monuments, National Lakeshore Recreational Areas [NPS, Act of August 25, 1916 (16 USC §1, et seq.)];
- Waterfowl Management Areas are designated for the protection of habitat important to waterfowl and are designated within the states' Wildlife Management Areas;
- Other areas of concern are wetlands which generally include swamps, marshes, bogs and similar areas. Wetlands are defined in 40 CFR 230.3 and by USFWS. Wetland Management Areas administered by the USFWS are crucial habitats for waterfowl production.

[Relevant State statutes to be added.]

4.4 Areas of Economic Significance

Responders need to identify and protect areas of economic importance. Public drinking water intakes, industrial water users, aquaculture sites and agricultural water users could be adversely impacted by a discharge of oil or other hazardous materials. Water intakes in shallow lakes and rivers are at greatest risk to an oil spill. Timely response procedures which identify water users and notify them of an on coming spill is imperative. With prompt notification, water intakes/diversions can be shut down or boomed off. Water users other than municipal drinking water intakes are still being identified.

Tourism is also of importance with numerous important fishing streams, boating and canoeing areas, and other recreational activities associated with the Region's rivers and lakes. Identifying and protecting these economic resources is critical to response considerations.

5.0 DETERMINING THE ENVIRONMENTAL EFFECTS OF RESPONSE AND COUNTERMEASURES

Decisions on appropriate response and countermeasures should take into account the relative impact of response methods on sensitive areas. Using the information collected on downstream sensitive areas and spill response guidelines, informed decisions on appropriate protective measures can be made. When deciding on a method of response, the most important consideration should be the effectiveness of protecting habitats and removing spills of oil or other hazardous materials.

5.1 Impacts of Response Methods on Sensitive Environments and Habitats

The American Petroleum Institute and the National Oceanic and Atmospheric Administration (API/NOAA) collaborated on a study for Inland Oil Spills and finalized their findings in May of 1994. This is the first comprehensive guidance on responding to freshwater inland spills. API/NOAA classified specific oil response methods and their relative impacts on given environments and habitats. Physical, chemical and biological response methods are discussed and response impacts on the environment are classified as low impact, moderate impact, high impact and ineffective or inapplicable.

Table 1, taken from the API/NOAA document, includes the findings for response method impacts on water environments and shoreline habitats.

5.2 Appropriate Response for Specific Sensitive Environments and Habitats

Many of the issues dealing with appropriate response methods will be addressed in detail during the Sub-Area Planning. Response sections of Sub-Area plans will include:

- Identifying specific areas of concern throughout the region and pre-planning for the products most commonly spilled and the locations where spills most commonly occur;
- Response methods for habitats and sensitive areas using the API/NOAA guidance, Options for Minimizing the Environmental Impacts of Freshwater Spill Response;
- Pre-approving appropriate removal actions including the use of chemicals and dispersants per 40 CFR Subpart J - Use of Dispersant and Other Chemicals, §300.910.
- Locating access points, staging areas and boom anchor locations.

[Note - Additional guidance on response techniques is under development.]

RELATIVE IMPACT OF RESPONSE METHODS IN THE ABSENCE OF OIL

Source: API/NOAA 1994

	V	VATER EN	VIRON	MENT	SHORELINE HABITAT							
RESPONSE MEITIOD	Open Water	Small Lakes/Ponds	Large Rivers	Small Rivers/ Streams	Bedrock	Man-made	Sand	Vegetated Shores	Sand and Gravel	Gravel	Mud	Wetlands
PHYSICAL RESPONSE METHODS					I							
Natural Recovery	-	-	-	-	, , -	-	-	-	•	-	-	-
Booming	L	L	L	L .	¦ -	٠.		- ·.	•	-	-	-
Skimming	L	L	L	L	' -	-	-	•	-	•	-	-
Barriers/Berms	÷	•	•	H		•	, 4 ,	. •	'14 -	*	•	•
Physical Herding	L	L	L	L	¦ -	•	-	-	-	-	-	-
Manual Oil Removal/Cleaning	L	H	L	M	L	L	L:	H	M	M	H	H
Mechanical Removal	L	Н	H	Н	¦ -	M	M	Н	M	M	Н	H
Sorbents	L	L	L	L	L	r	L,	, L	L	L	M	M
Vacuum	L	L	L	L .	L	L	L	M	L	L	Н	M
Debris Removal	•	L	L	L	L	Ĺ	Ĺ.	, L	Ĺ	Ļ	M	M
Sediment Reworking	-	H	-	H	,	•	M	H	M	M	H	Н
Vegetation Removal	L.	Ħ	M	H	<u>.</u>	- , ,		Ħ	-	-	-	H
In-situ Burning	L	M	L	M	L	L	M	M	M	M	Н	M
Plooding	-	÷	-	- .	L	t	, L	L .	M	L	L	$^{\prime}$, $^{ m L}$
Low-Pressure, Cold-Water Flushing	-	-	-	•	ւ	L	M	Ļ	Ļ	M	Н	L
High-Pressure, Cold-Water Plushing		-		- '	L	Ļ.	, H	H	Ĥ	H	Н	H
Low-Pressure Hot-Water Flushing	-	-	•	•	M	L	H	H	M	M	H	H
High Pressure, Hot-Water Flushing	٠ ـ	•	-	-	M	· · L :	H	Ħ	H	H	H	H
Steam Cleaning	-	-	-	-	М	L	H	Н	M	M	Н	H
Sand Blasting	-	•	•	•	H	M	•	•	•	•	*	+
CHEMICAL RESPONSE METHODS					!			• •				
Dispersants	L	H	Ļ	. Н	*	• · · ·	•	May Marija	. ::• .	•	* #:	•
Demulsifiers	L	L	L	M	<u> </u>	-	-	-	•	-	-	-
Visco-Elastic Agents	L L	M	. L	Ľ	<u>.</u>	. -	., .	1 to 1		•	~ .	-
Herding Agents	L	M	L	Н	1 1 -	•	-	-	-	-	-	-
Solidifiers	L	·L	Ĺ	L	L	L.	M	M	M	Ł	M,	М
Chemical Shoreline Pretreatment	-	-	-	-	i	I	I	I	I	I	I	I
Shoreline Cleaners	-	•	-		M	ľ.	M	i	M	, M	M	1
RIOLOGICAL RESPONSE METHODS					I							
Nutrient Enrichment	L	M	, L	L	L.	. L.	L.	L	L	L	; L	L .
Natural Microbe Seeding	Ī	I	1	I	İ	I	1	1	I	I	I	1

L = Low; M = Moderate; H = High; I = Incomplete Information; "-" = Ineffective or Inapplicable for Habitat.

5.3 Monitoring Response Effectiveness - Monitoring Plans

An oil spill is dynamic and cleanup efforts must change as conditions change. Over time, the oil will spread, move downstream and weather. Climatic and geographic conditions may also change. A continual monitoring program to ensure the maximum removal of oil and protection of the environment throughout the duration of the cleanup is essential.

The OSC, in consultation with the natural resource trustees and the responsible party, will monitor the effectiveness of response activities in protecting sensitive habitats and removing discharges of oil or releases of hazardous substances. The OSC will consult with natural resource trustees and natural resource agency managers regarding the need for and methods of an incident-specific long-term monitoring plan. Efforts to control, contain and clean up the oil typically involve a number of containment and recovery methods. These methods may include booms, barriers, skimmers, sorbents, chemical agents, and manual recovery. As each of these methods has limitations associated with them, continued monitoring is necessary to ensure a successful cleanup. Monitoring will also be necessary to ensure that ecological impacts associated with the response actions do not cause more harm than good. Monitoring activities may include visual observation, sampling, data collection and evaluation, and replacement of saturated or defective material. Consultation with the natural resource agencies is essential to minimize injury to fish and wildlife and their habitats or other sensitive environments.

5.3.1 Monitoring Plan [Outline to be developed]

6.0 FISH AND WILDLIFE RESPONSE CAPABILITIES

In addition to consultation and coordination with natural resource trustees and other natural resource management agencies during the pre-spill planning phase to identify and understand potential natural resource concerns, consultation and coordination with these agencies during the response is also essential. Fish and wildlife response capabilities include:

6.1 Technical Expertise and Assistance

During a response, natural resource trustees and managers will provide technical assistance and expertise on potential effects of oil on fish and wildlife and their habitats or other sensitive environments that can be found in the impacted area. They are familiar with the area or habitats affected and are able to provide recommendations on the best locations for staging areas, access points, or anchor locations. They will recommend specific habitats where protective measures should be taken and provide advice on response actions to be taken. They can assist in the development of a monitoring plan and subsequent collection of data. Finally, the U.S. Fish and Wildlife Service and the State wildlife agency will direct or provide oversight for the protection, rescue, and rehabilitation of fisheries and wildlife.

6.2 Wildlife Protection

When an oil spill occurs, natural resource trustees or managers will provide timely advice on the necessary measures to protect wildlife from exposure to oil and the priority and timing of such measures. Protective measures may include all or a combination of the following:

- prevent the oil from reaching areas where migratory birds and other wildlife are located by either containing or recovering the oil, or
- deter birds or other wildlife from entering areas already affected by oil by using wildlife hazing devices or methods.

Wildlife hazing devices or methods are generally grouped into visual or auditory, or a combination of both. The types of equipment used and where they can be obtained can be found in Attachment 1. In an emergency, the USFWS, the State wildlife agency, or a local animal damage control agent may be able to locate and provide this equipment.

6.3 Wildlife Rescue and Rehabilitation

If exposure of birds and other wildlife to oil cannot be prevented, an immediate decision will need to be made whether to capture and rehabilitate oiled birds and other wildlife. The Department of the Interior (DOI) has statutory responsibilities for the protection of migratory birds and Federally-listed threatened and endangered species, which are carried out by the USFWS. If animals other than migratory birds or Federally-listed threatened or endangered species are found injured, the responsible agency would typically be the State wildlife agency. The decision to rescue and rehabilitate oiled wildlife must be made in consultation with the applicable State and Federal natural resource agencies as State and Federal permits are required by law.

State and Federal permits are required to collect, possess, treat and band migratory birds and threatened and endangered species. The laws and regulations that require such permits are as follows:

Migratory Bird Treaty Act of 1918, as amended, 16 U.S.C. 703 et seq - No person shall take, possess, import, export, transport, sell, purchase or barter, any migratory bird, or the parts, nests, or eggs of such bird except as permitted under the terms of a valid permit issued by U.S. Fish and Wildlife Service pursuant to the provisions of 50 CFR 21 and 50 CFR 13. Enforcement authority and penalties for violations are provided.

Bald Eagle Protection Act of 1940, as amended, 16 U.S.C. 668 et seq - No person shall take, possess, or transport any bald eagle or any golden eagle, or the parts, nests, or eggs of such birds except as permitted under the terms of a valid permit issued by USFWS pursuant to 50 CFR 22 and 50 CFR 13. Enforcement authority and penalties

for violations are provided.

Endangered Species Act of 1973, as amended, 16 U.S.C. 1531 et seq - It is unlawful for any person to commit, attempt to commit, solicit another to commit, or cause to be committed the import or export, take, possession, sale or offer for sale any endangered species except as permitted under the terms of a valid permit issued by the U.S. Fish and Wildlife Service pursuant to 50 CFR 17. Enforcement authority and penalties for violations are provided.

[Relevant State laws are to be added].

If rescue and rehabilitation efforts are deemed worthwhile, one Federal permit is required for oiled migratory birds and one Federal permit is required for oiled threatened and endangered species. Each of these permits may encompass more than one species. If a bird is considered a migratory bird, but is also a threatened or endangered species, it should be listed under the threatened and endangered species permit.

USFWS personnel will handle all federal permit activities through the field office responsible for the area where the spill occurs. State permits must be handled through the applicable state agency office. The permit issuing offices for Region VII are:

Iowa	U.S. Fish and Wildlife Service 4469 48th Avenue Court Rock Island, Illinois 61201	309-793-5800 Fax: 793-5804
	Iowa Department of Natural Resources Licensing Bureau Wallace State Building East 9th and Grand Street Des Moines, Iowa 50319-0035	515-281-5638 Fax 281-6794
Kansas	U.S. Fish and Wildlife Service 315 Houston, Suite E Manhattan, Kansas 66502	913-539-3474 Fax 539-8567
-	Division of Fisheries and Wildlife Kansas Dept. of Wildlife and Parks 512 Southeast 25th Avenue Pratt, Kansas 67124-8174	316-672-5911 Fax 672-6020
Missouri	U.S. Fish and Wildlife Service 608 Cherry Columbia, Missouri 65201-7712 Wildlife Division	314-876-1911 Fax 876-1914

	Missouri Department of Conservation P.O. Box 180	314-751-4115 Ext. 150
	Jefferson City, Missouri 65102	Fax 526-4663
Nebraska	U.S. Fish and Wildlife Service	308-382-6468
	203 West Second Street Federal Building, 2nd Floor	Fax 384-8835
	Grand Island, Nebraska 68801	
	Law Enforcement Division	402-471-0641
	Nebraska Game and Parks Commission	Fax 471-5528
	2200 North 33rd Street	
	Lincoln, Nebraska 68503	

All rescue and rehabilitation efforts will be directed by the USFWS and the State wildlife agency, including the notification of a qualified wildlife rehabilitation organization and obtaining the necessary permits. The following criteria will be used by the USFWS and State wildlife agencies in selecting a rehabilitator:

Guidelines for Selection of Wildlife Rehabilitator

- Wildlife rehabilitator must have, or be able to obtain, the appropriate Federal and State permits and licenses to collect, possess, treat, and band migratory birds or threatened and endangered species.
- Wildlife rehabilitator must demonstrate high standards of practice, treatment, conduct, and ethics as reflected by organization such as the National Wildlife Rehabilitator Association, the American Veterinarian Association and the American Society for Prevention of Cruelty to Animals.
- Wildlife rehabilitator must have adequate liability insurance to protect both staff and volunteers.
- Wildlife rehabilitator should have a proven record and experience in rescue and rehabilitation of oiled wildlife.
- Wildlife rehabilitator must comply with all applicable Federal (Occupational Safety and Health Administration, etc.) and state safety regulations to protect staff and volunteers.

Two organizations, International Bird Rescue in Berkeley, California, and Tri-State Bird Rescue and Research, Inc. in Newark, Delaware, have become recognized experts in oiled bird rehabilitation:

Tri-State Bird Rescue and Research, Inc. 110 Possum Hollow Road Newark, Delaware 19711

302-737-7241 Fax 302-737-9562 24 hr pager 800-710-0695 or 0696

International Bird Rescue Research Center 699 Potter Street Berkeley, California 94710

rehabilitation efforts.

510-841-9086 Fax 510-841-9089

Both organizations have extensive experience in bird rescue and rehabilitation and have worked both with government and industry. In addition, other more local, less well known bird rehabilitation organizations may also have such expertise in this area. Veterinarians and researchers from USFWS, other federal agencies, and state wildlife agencies and universities may also provide assistance and expertise during

All rescue and rehabilitation efforts will be directed by the USFWS and the State wildlife agency, including the notification of a qualified wildlife rehabilitation organization and obtaining the necessary permits.

Health and Safety Concerns in Wildlife Rescue and Rehabilitation

Two Occupational Safety and Health Administration (OSHA) regulations cover the majority of occupational health and safety issues encountered during wildlife rescue and rehabilitation.

The Hazardous Wastes Operations and Emergency Response (29 CFR 1910.120) regulates organizations or individuals directly involved in on-site (hot-zone) retrieval or clean-up efforts. In addition, each state may have its own worker safety requirements; coordination with the appropriate state agency should be conducted to ensure these requirements are also met.

The Hazard Communication Standard (29 CFR 1910.1200), also known as "Right to Know Law" or "HazCom" requires that all chemicals in the work place be fully evaluated for possible physical or health hazards and that all information relating to these hazards be made available to all workers. HazCom applies to rehabilitation organizations because petroleum is considered a human health hazard.

Rehabilitation organizations are legally required to educate and protect all employees. This training should also be provided to volunteers. Individuals working with oiled animals need information of all potential hazards associated with the handling of these animals. The following minimum requirements should be applied to wildlife rescue and rehabilitation personnel, including volunteers:

• Wildlife rescue and rehabilitation management personnel - this is the core

team of certified rehabilitators who will direct operations. These people must have 24 hours of classroom training in hazardous waste operations and emergency response.

- Rehabilitation facility volunteers these volunteers work under the direction of the facility management team and are not allowed on-scene, nor in the hotzone, unless additional training is provided (see Retrieval volunteers). Volunteers working in this category should receive four hours of training in the Hazard Communication Program before they can begin work.
- Retrieval volunteers these volunteers work under the direction of the search and rescue management team and are allowed on-scene, but not in the hot zone. Volunteers working in this category should receive between 4-8 hours of training in the Hazard Communication Program before they can begin work.
- Any hot-zone retrieval of animals would need to be performed by someone with 40 hours of classroom safety training for hazardous waste workers that meets OSHA guidelines, including eight hour annual refresher training.

The OSC, in consultation with OSHA's representative to the Regional Response Team, has responsibility for making assessments when training requirements are in question.

(The NCP 300.210 (c) II (H) states that the annex will identify and secure the means of providing, if needed, the minimum required OSHA and EPA training for volunteers, including those who assist with injured wildlife.)

A Hazard Communication Program should contain all of the following elements:

- the nature of the oil and how its composition may change with the effect of weathering,
- the nature of other hazardous chemicals that may be contacted during rehabilitation efforts
- routes of entry of these chemicals
- signs and symptoms of chemical exposure
- protective measures, including work practices and personal protective equipment (PPE, with training on how to properly use)
- -- environmental monitoring equipment
 - importance of personal hygiene
 - how to read a Material Safety Data Sheet and know what it means
 - first aid protocols and identification of medically trained personnel and first aid stations
 - storage and disposal of hazardous waste, including medical waste and PPE
 - training records of written curriculum, date and hours of instruction, instructor and student names

Besides chemical hazards, other hazards such as mechanical, physical and biological hazards are also present during rescue and rehabilitation activities. Workers must also be trained on these hazards as well. In addition to the above, training elements may include the following:

Facility concerns:

- behavior of oiled birds
- proper animal restraint
- personal protective equipment and clothing to protect from bloodborne pathogens and zoonoses
- proper heavy lifting techniques
- safe working practices, e.g. no slippery or messy floors
- electrical safety

Field concerns (in addition to the above):

- climatic conditions (e.g. cold, heat)
- terrain
- proper retrieval methods
- vehicle safety (4-WD vehicle, boat)
- water hazards
- response operations hazards

Other safety concerns may occur at either the spill site or the rehabilitation facility. These concerns should be addressed on a site-specific basis.

6.4 Other Roles and Responsibilities of Natural Resource Trustees

In the event of a spill, it may be necessary for natural resource trustees and managers to initiate an assessment of damage to the environment as a result of the spill. The Natural Resource Damage Assessment (NRDA) is the process by which trustees collect, compile and evaluate data, information and statistics to determine the extent of injury to natural resources. This information is used to assess <u>damages</u>, the dollar amount necessary to restore injured natural resources and compensate for lost use as a result of the injury, and then to seek recovery of those damages from the responsible party.

- At the same time removal actions undertaken to contain and remove oil and wildlife rescue and rehabilitation activities are occurring, the natural resource trustees may initiate NRDA activities. These activities are usually initiated to acquire data and materials that are likely to be lost if not collected during or immediately after a spill has occurred. Such field sampling and data collection is typically limited to:
 - Samples necessary to preserve perishable materials likely to have been affected or contain evidence of the oil. These samples will generally be biological material that is either dead or has been visible injured by the oil.

- Samples of other ephemeral conditions or materials, such as surface water, sediments, soil, or the oil itself, which are necessary for identification and measurement of concentrations. These samples would otherwise be lost because of such factors as dilution, movement, decomposition, or leaching if not taken immediately.
- Counts of dead or visibly injured organisms, which if delayed may not be possible because of factors such as decomposition, scavengers, sinking, or water movement.

In certain circumstances, a natural resource trustee may undertake emergency restoration efforts consistent with its existing authority to prevent or reduce the immediate migration of oil onto or into a trust resource. Emergency restoration would be undertaken by the trustee only if the responsible party does not do it or the EPA is precluded under statutory authority from conducting response and removal actions rapidly enough to protect natural resources.

Because initiation of natural resource damage assessment activities may occur concurrently with removal actions as part of the response, all sampling and field work conducted by the natural resource trustees must be coordinated with the lead response agency so as to minimize any interference with response operations or duplication of sampling and data collection efforts. Prior OSC approval is required for any work conducted in support of removal activities and before any associated costs will be reimbursed by the Oil Spill Liability Trust Fund. Other activities performed as part of initiation of damage assessments are reimbursable by the Oil Spill Liability Trust Fund as long as these activities are approved in advance by the Fund Center.

7.0 EVALUATING THE INTERFACE OF THE ACP WITH NON-FEDERAL PLANS

The final rule on Oil Pollution Prevention for Non-Transportation-Related Onshore Facilities, 40 CFR Part 112, requires facilities with a total oil storage capacity greater than or equal to one million gallons to submit response plans if located at a distance such that a discharge of oil could cause injury (as defined at 40 CFR 112.2) to fish, wildlife, sensitive environments and public water intakes.

Facility owners or operators must determine the distance at which an oil spill could cause injury to fish and wildlife and sensitive environments and have a plan for mitigating a discharge's adverse effect. The plan must be consistent with the requirements of the NCP and this ACP Annex.

EPA will review and approve Facility Response Plans for compatibility with this Annex; pipeline plans in Region VII will be reviewed and approved by RSPA. Participation by facilities in the Area and Subarea Committees is encouraged. Joint exercises will be conducted to test facility plans and their interface with this Annex.

ATTACHMENT 1

WILDLIFE DAMAGE MANAGEMENT EQUIPMENT SUPPLIERS

Attachment 1

WILDLIFE DAMAGE MANAGEMENT EQUIPMENT SUPPLIERS

Repellents

Electronic Alarm and Recorded Bird Repellents

Evert Achterberg P.O. Box 123 Escalon, CA 95320 (Double John Purivox Bird Scarer)

Adams Dominion, Inc. 1212 Weible Road Crestwood, KY 40014 (502) 241-0241 (Animal Detection)

Air Birdstrike Prevention 15 Edgewood St. Worcester, MA 01602 (301) 963-9270 (Radio-controlled planes)

Arkansas Electronic Consultants 800 Stanton Road Little Rock, AR 72209

Av-Alarm Corp. 675-D Conger St. Eugene, OR 97402 (503) 342-1271

Coleman Equipment, Inc. 342 Madison Ave. New York, NY 10017 (212) 687-2154 (vigil-andy)

Electronic Game Calls 210 W. Grand Ave. Wisconsin Rapids, WI 54495 Falcon Safety Products Inc. 1065 Bristol Road Mountainside, NJ 07092 (201) 233-5000 (air horn)

Jennings Industries, Inc. 2730 Chanticleer Ave. San Cruz, CA 95060 (408) 475-8311

Margo Horticultural Supplies Ltd. RR 6 Site 8, Box 2 Calgary, Alberta T2M 4L5 Canada (403) 285-9731 (microwave motion detector)

Phoenix Agritech
P.O. Box 10
Nova Scotia, B2N5B6
902-897-2728
(Phoenix Wailer - Acoustical bird deterrent device)

Reed-Joseph International Co. P.O. Box 894 Greenville, MS 38702 (800) 647-5554 (animal detection)

Signal Broadcasting Co. 2314 Broadway St. Denver, CO 80205 (303) 295-0479 (distress call tapes)

WILDLIFE DAMAGE MANAGEMENT EOUIPMENT SUPPLIERS

Tomko Enterprises Inc. Rt. 58, RD #2 P.O. Box 937-A Riverhead, NY 11901 (516) 727-3932 ("clapper" device with timer)

Wrightman Electronics, Inc. P.O. Box 989
Easton, MD 21601

Propane Exploders

Alexander-Tagg Inc. 395 Jacksonville Rd. Warminster, PA 18974 (215) 675-7200

Coleman Equipment Inc. 342 Madison Ave. New York, NY 10017 (212) 687-2154 (vigil andy)

M. J. Flynn Inc. Syracuse, NY (315) 437-6536 (Zon gun)

C. Frensch Ltd. 168 Main St. E. Box 67 Grimsby, Ontario L3M 1G4 Canada (416) 945-3817

Pete Konzak Box 20 Minnewaukan, ND 58351 (701) 473-5646 (jump-up scarecrow) B.M. Lawrence & Co. 233 Sansome St. San Francisco, CA 94104 (415) 981-3650 (Zon gun)

McKinzie Scientific P.O. Box 1077 1340 Kerr Ave. Lancaster, OH 43130 (614) 687-4617

Pisces Ind. P.O. Box 6407 Modesto, CA 95355 (209) 578-5502

Reed-Joseph International Co. P.O. Box 894 Greenville, MS 38702 (800) 647-5554

Smith-Roles 1367 S. Anna St. Wichita, KS 67209 (316) 945-0295

Spring Ledge Farms RD 3 Dundee, NY 14837

Teiso Kasei Co. Ltd. 350 S. Figueroa St., Suite 350 Los Angeles, CA 90071 (213) 680-4349

USDA, APHIS, S&T, DWRC P.O. Box 25266, Building 16 Denver Federal Center Denver, CO15 80225-0266 (303) 236-7877 (farmer fred)

WILDLIFE DAMAGE MANAGEMENT EQUIPMENT SUPPLIERS

Pyrotechnic Devices

The Bullseye Gunshop 1081 Huntingdon Ave. Waterbury, CT 06704 (203) 755-1055

California Seal Control Corp. P.O. Box 949 San Pedro, CA 90733 (310) 833-2681 (underwater explosives)

Colonial Fireworks 5956 Ivanhoe Ipsilanti, MI 48197 (313) 482-3272

New Jersey Fireworks Co. Box 118 Vineland, NJ 08360 (609) 692-8030 (rope firecrackers)

O.C. Ag. Supply 1328 Allec St. Anaheim, CA 92805 (714) 991-0960 Reed-Joseph International Co. P.O. Box 894 Greenville, MS 38702 (800) 647-5554

Stoneco Inc. P.O. Box 187 Dacono, CO 80514 (303) 833-2376

Sutton Ag. Ent. 1081 Harkins Rd. Salinas, CA 93901 (408) 422-9693

Wald & Co. 208 Broadway Kansas City, MO 64105 (816) 842-9299 (rope firecrackers)

Western Fireworks Co. 2542 SE 13th Ave. Canby, OR 97103 (503) 266-7770

WILDLIFE DAMAGE MANAGEMENT EQUIPMENT SUPPLIERS

Visual Bird Repellents

Atmospheric Instrumentation Research (AIR) Inc.
1880 S. Flatiron Ct., Suite A
Boulder, CO 80301
(301) 433-7187
(balloons, kites)

Bird-X 325 W. Huron St. Chicago, IL 60610 (312) 642-6871 (Raptor effigies, lights)

Coleman Equipment, Inc. 342 Madison Ave. New York, NY 10017 (212) 687-2154 (vigil-andy)

R.E. Deitz Co. 225 Wilkinson St. Syracuse, NY 13201 (315) 424-7400 (strobe lights)

Edmund Scientific Company 7977 EDSCORP Building Barrington, NJ 08007 (609) 547-3488 (3' balloons)

The Huge Co. 7625 Page Blvd. St. Louis, MO 63133 (800) 325-3371 (Raptor effigies, lights)

Kite City 1201 Front St. Old Sacramento, CA 95814 (Hawk Kite) Pete Konzak Box 20 Minnewaukan, ND 58351 (701) 473-5646 (jump-up scarecrow)

Mellingers 2310 W. South Range Rd. N. Lima, OH 44452 (800) 321-7444 (scarecrow)

Nishizawa (USA) Ltd. 112 W. 9th St., Suite 903 Los Angeles, CA 90015 (213) 627-7491 (Mylar balloons, flash tape)

Offshore Sourcing Development 1240 Josephine Road Roseville, MN 55113 (612) 633-2384 (balloons)

Orchard Equipment & Supply Co. P.O. Box 540
Conway, MA 01341
(413) 369-4335
(balloons)

Pest Management Supply, Inc. P.O. Box 938 Amherst, MA 01004 (413) 253-3747 (balloons, flash tape)

Raven Ind. Inc. P.O. Box 1007 Sioux Falls, SD 57117 (605) 336-2750 (balloons)

APPENDIX A.2

ENVIRONMENTALLY SENSITIVE AREAS

Revision 1 December, 1994 Appendix A.2 contains a listing of Environmentally Sensitive Areas (ESAs) in Region VII. The list has been accumulated by requesting information from Federal, state and local agencies regarding their areas of responsibility as recommended by Appendix D included in Attachment D-1, within the Oil Pollution Prevention; Non-Transportation-Related Onshore Facilities; Final Rule, 40CFR Part 112. (See Table A)

Table A: Recommended ESAs and Current Status in Region VII ACP.

ENVIRONMENTALLY SENSITIVE AREAS	RESPONSIBLE FEDERAL AGENCY	STATUS IN REGION VII ACP
Wetlands, as defined in 40 CFR 230.3	EPA	Available. See #1
Critical habitat for designated or proposed endangered/threatened species	NOAA/FWS	See #2
Habitat used by designated of proposed endangered/ threatened species or marine mammals defined as depleted	NOAA/FWS	Under development
Marine sanctuaries	NOAA	NA
National parks	DOI/NPS	Listed
Federal wilderness areas	USDA	listed
Coast Zone Management Act designated areas	NOAA	NA ·
National estuaries	NOAA	listed
Near coastal waters program areas	EPA	NA

ENVIRONMENTALLY SENSITIVE AREAS	RESPONSIBLE FEDERAL AGENCY	STATUS IN REGION VII
Clean lakes program critical areas	EPA	Under development
National monuments	DOI/NPS	Listed
National seashore recreational areas	DOI/NPS	NA
National lakeshore recreational areas	DOI/NPS	Listed
National preserves	DOI/NPS	Listed
National wildlife refuges	NOAA/FWS	Listed
Coastal barrier resource system (units, undeveloped, partially developed	DOI/FWS	NA
National river reach designated as recreational	EPA	Listed
Federal or state designated scenic or wild river	DOI/NPS	Listed
National conservation areas	DOI/BLM	Listed
Hatcheries	DOI/FWS	Listed
Waterfowl management areas	DOI/FWS	Listed

NA = These ESAs are not applicable in Region VII Listed = These ESAs are currently listed in Appendix A.1

See #' = These ESAs are referenced and are available through EPA

Region VVI, EP&R, 25 Funston Rd. Kansas City, KS 66115 (913) 550-5000

Acronyms

BLM - Bureau of Land Management

DOI - Department of Interior EPA - Environmental Protection Agency

FWS - Fish and Wildlife Services

NOAA - National Oceanic and Atmospheric Administration

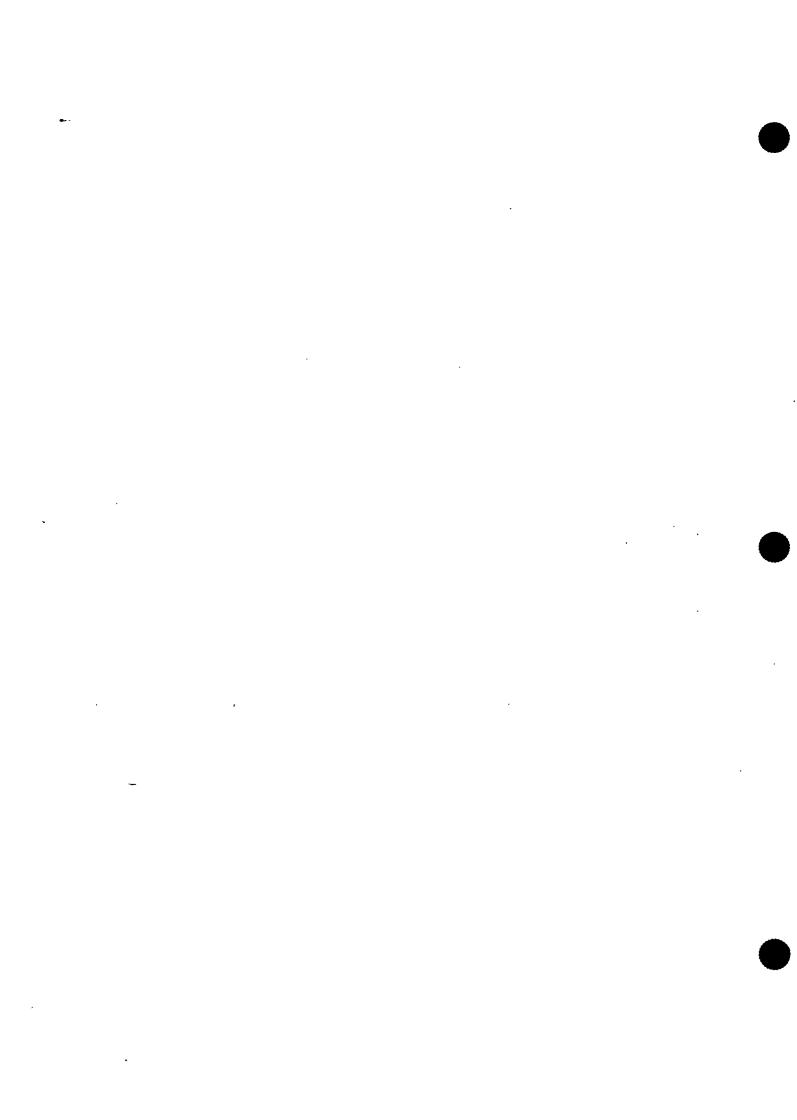
NPS - National Park Service

USDA - United State Department of Agriculture

Revision 1 December, 1994

Environmentally Sensitive Areas

The following list identifies ESAs in the four state EPA Region VII by state, county, agency, type and name. The database is a growing bank of information to be utilized with the understanding that it is limited in its data. Updates will be made periodically to acknowledge new ESAs or to add those that may have been missed.



ENVIRONMENTALLY SENSITIVE AREAS REGION VII:

IA	TNC	Project Areas	Ames High Prairie	
IA	THC	Project Areas	Cedar Hills Sand Prairie	
IA	THC	Project Areas	Behrens Pond & Woodland	
IA Plymouth	THC	Project Areas	Broken Kettle Grassiands	Loess Hills
IA	THC	Project Areas	Sioux City Prairie	
IA Bremer	THC	Project Areas	Brayton-Horsley Prairie	
IA	THC	Project Areas	Mountain Maple Hollow	NE Iowa
IA Plymouth	TNC	Project Areas	Five Ridge Preserve	
IA	THC	Project Areas	Howard Creek	
IA Dallas	TNC	Project Areas	Dilvers-Smith Woods	access to Raccoon River
IA	THC	Project Areas	Red Cedar Woodland	
IA	TNC	Project Areas	Freda Haffner Reserve	
IA	TNC	Project Areas	Kaufmann Avenue Prairie	Dubuque
IA Chickasaw	TNC	Project Areas	Schroeder Prairie & Fen	
IA	TNC	Project Areas	Savage Memorial Woods	
IA	TNC	Project Areas	Greiner Family Nature Preserve	N. of Muscatine
IA	TNC	Project Areas	Bluebell Hollow	
IA	THC	Project Areas	Roggman Boreal Slopes	
IA	THC	Project Areas	Lock & Dam #14 Eagle Area	
IA	THC	Project Areas	Retz Memorial Forest	
IA VanBuren	THC	Project Areas	Reno Timber	
IA	THC	Project Areas	Hoffman Prairie	
IA	THC	Project Areas	Steele Prairie	
IA Dickinson	THC	Project Areas	Halbur fen	
IA	USFS	Research Areas	None	
IA	IDNR	State Parks	Beeds Lake	3 Mi. N.W. Hampton-Co.Rd.
IA	LORR	State Parks	Okananpedan	3 Mi. N.E. Dolliver-Co.Rd.
IA	IDNR	State Parks	Tempiar Park Rec. Area	3 Mi. H.W. Spirit Lake-IA 276
IA	IDER	State Parks	Cedar Rock	3 Mi. H.W. Quasqueton
IA	LONG	State Parks	Rice Lake	2.5 Mi. S.E. Lake Mills-Co.Rd.
IA	IDER	State Parks	Badger Creek Rec. Area	\6 Mi. S.E. Van Meter
IA	IDNR	State Parks	Pilot Knob	4 Mi. E. Forest City-IA 9
IA	IONR	State Parks	Clear take	2 Mi. S. Clear Lake-IA. 106
IA	IDNR	State Parks	Yellow River Forest Camping	14 Mi. S.E. Waudon-IA 76
IA	IDER	State Parks	Springbrook	8 Mi. H.E. Guthrie Center-IA.25-384
IA	I DNR	State Parks	Fairport	5 Mi. E. Muscatine-IA.22
IA	I DUR	State Parks	Pikes Peak	2.5 Mi. S.W. Spirit Lake-IA 9
IA	I DNR	State Parks	Dolliver Memorial	3 Ni N.W.Lehigh-IA. 50
IA	I DWR	State Parks	Big Creek	2 Mi. N. Polk City-IA. 415
IA	I DNR	State Parks	Lake Ahquabi	5.5 Mi. S.W. Indianola-IA. 349
IA	I DHR	State Parks	Elk Rock (Red Rock)	7 Mi. H. Knoxville-IA.14
IA	IONR	State Parks	Emerson Bay	2.5 Hi N. Hilford-IA.32
IA	I DNR	State Parks	Geode	4 Ni. S.W. Danville-CO.Rd.
IA	I DNR	State Parks	Lake MacBride	4 Mi. W. Solon-IA. 382
IA	I DNR	State Parks	Lacey-Keosauqua	Adjoins Keosauqua-IA.1
14	I DNR	State Parks	Fort Atkinson	Adjoins F. Atkinson-IA.24
IA	I DNR	State Parks	Lake Anita	5 Mi. S. Anita Interchange-I-80
IA	IONR	State Parks	Ledges	6 Mi. S. Boome-IA. 164
IA	IDMR	State Parks	Lake Keomah	5 Mi. E. Oskaloosa-IA. 371
IA	IDMR	State Parks	Fort Defiance	1 Ni W. Esterville-IA. 9
IA	IDNR	State Parks	Lake Manawa	1 Mi. S. IA. 92-Council Bluffs.
IA	IDNR	State Parks	Pleasant Creek	4 Mi. N5 Mi. W. Palo
I.A.	IONR	State Parks	Lake Wapeilo	6 Mi. W. Drakesville-IA.273
IA	IDMR	State Parks	Geo. Wyth Memorial	Adjoining Cedar Falls-US 57
IA	IDER	State Parks	Lewis & Clark	3 Mi N.W. Onawa-IA. 324
IA	IDAR	State Parks	Twin lakes	7.5 Mi. N. Rockwell City-IA 4-124

	ounty	Agency	Type	Hane	Address
IA.		NPS	Biosphere Reserve	None	
IA		BIA	Federal Indian Reservation	Sac & Fox	
IA		COE	Large Reservoirs	Saylorville Lake	
IA		COE	Large Reservoirs	Lake Red Rock	
IA		COE	Large Reservoirs	Rathbun Lake	•
IA		COE	Large Reservoirs	Coraiville Lake	
IA		FWS	National Fish Hatchery	Pairport NFH	1 M: N of Monacette
IA		NPS	National Parks National Parks	Effigy Mounds Nat. Monument Herbert Hoover Historic Site	3 Mi. N. of Marquette
IA IA		NPS		Union Slough NWR	8 Mi. E. Iowa City
IA IA		FWS. FWS	National Wildlife Refuge	Walaut Creek NWR	
IA		FWS	National Wildlife Refuge National Wildlife Refuge	Osceola County WPA	
IA IA		FWS	National Wildlife Refuge	Driftless Area NWR	
IA IA		FWS	National Wildlife Refuge	Upper Mississippi Refuge	
IA IA		FWS	National Wildlife Refuge	De Soto NWR	
IA Dicki	nenn	NPS	Waturai Landmarks	Cavler Prairie	5 Mi. W. of West Okoboji
IA Clay	113011	NPS	Naturai Landmarks	Dewey Pasture & Smith's Slough	4 Mi. N.W. of Ruthven
IA Hami	iton	NPS	Natural Landmarks	Anderson Goose Lake	1 Mi. E. of Jeveil
IA Howar		NPS	Natural Landmarks	Hayden Prairie	12 Mi. N.W. of Cresco
iA Palo	-	NPS	Natural Landmarks	Dewey Pasture & Smith's Slough	
IA Harri		NPS	Naturai Landmarks	Loess Hills	Turin & Little Sioux/Smith Lake
IA Winne		NPS	Natural Landmarks	Cold Water Cave	
IA Dubug		NPS	Natural Landmarks	White Pine Hollow Preserve	20 Mi. N.W. of Dubuque
IA Monon	•	NPS	Haturai Landmarks	Loess Hills	Turin & Little Sioux/Smith Lake
IA		IOG	Nat. Migratory Bird Refuges	De Soto	
IA		DOI	Nat. Migratory Bird Refuges	Union Slough	
[A		IOG	Nat. Migratory Bird Refuges		`
IA Clayt	ton	NPS	Nat. Scenic Rivers	Turkey River	Mississippi River to Vernon Springs
IA Winne	eshiek	NPS	Nat. Scenic Rivers	Turkey River	Mississippi River to Vernon Springs
IA Louis	sa	NPS	Nat. Scenic Rivers	Cedar River	Iowa River to Highway 6
IA Cedar	Γ	NPS	Nat. Scenic Rivers	Wapsipinicon River	Mississippi River to Hwy. 334 at Frederika
IA Howar	rd	NPS	Nat. Scenic Rivers	Turkey River	Nississippi River to Vernon Springs
IA Scott	t	NPS	Nat. Scenic Rivers	Wapsipinicon River	Mississippi River to Hwy. 334 at Frederika
IA Bucha		NPS	Nat. Scenic Rivers	Wapsipinicon River	Mississippi River to Mwy. 334 at Frederika
IA Linn		NPS	Nat. Scenic Rivers	Wapsipinicon River	Mississippi River to Hwy. 334 at Frederika
IA Fayer		NPS	Nat. Scenic Rivers	Turkey River	Mississippi River to Vernon Springs
IA Jacks		NPS	Nat. Scenic Rivers	Maquoketa River	Mississippi River to US 151
IA Allan		NPS	Nat. Scenic Rivers	Yellow River	Mississippi River to Hwy. 166 agar Myron
IA Jones		NPS	Nat. Scenic Rivers	Wapsipinicon River	Mississippi River to Mwy. 334 at Frederika Mississippi River to US 151
IA Jones		NPS	Nat. Scenic Rivers	Maquoketa River	Mississippi River to May. 334 at Frederika
IA Clini		NPS NPS	Nat. Scenic Rivers Nat. Scenic Rivers	Wapsipinicon River Wapsipinicon River	Mississippi River to Mwy. 334 at Frederika
IA Blaci IA Musca	_	NPS	Nat. Scenic Rivers	Cedar River	Iowa River to Highway 6
IA Brem		NPS	Nat. Scenic Rivers	Wapsipinicon River	Mississippi River to Mwy. 334 at Frederika
IA DI ENI	e i	TNC	Project Areas	Hanging Bog	mississippi nirgi tu neye uur et ligudilee
IA Buti	er	TNC	Project Areas	Big marsh	near Allison
IA Dick	•	TNC	Project Areas	Silver Lake Fen	11997 11111991
IA		THC	Project Areas	Finch Memorial Forest	Upper Iowa River
IA		TNC	Project Areas	Berry Woods	
IA		THC	Project Areas	Fera Ridge	
IA Clay		THC	Project Areas	Lindstron-Simons Fen	•
IA		THC	Project Areas	The Diggings	L
IA		THC	Project Areas	Williams Prairie	•
ĪĀ		TNC	Project Areas	Crossman Prairie	,

			o F H: W Mb Venne HC 90:
IA	IDNR State Parks	Palisades-Kepier	3.5 Mi. W. Mt. Vernon-US 30
IA	IDNR State Parks	Gull Point	3.5 Mi. N. Milford-IA. 32
IA	IDNR State Parks	Plum Grove	1030 Carroll St., Iowa City
IA	IDNR State Parks	Pillsbury Point	Arnolds Park-US 71
IA	IDER State Parks	Wanata	.5 Mi. S. Peterson-IA 10
IA	IDNR State Parks	Isthmus Access	N. Shore E. Okoboji Lake
IA	IDMR State Parks	Trappers Bay	Adjoins Lake Park-IA 219
IA	IDMR State Parks	Honey Creek	9.5 Mi. W./3.55.E. Moravia Hwy. 142
TA.	IDNR State Parks	Pine Lake	.5 Mi. N.E. Eldora-IA 118
IA.	IDNR State Parks	Preparation Canyon	5 Mi S.W. Moorhead-IA. 372
IA	IDMR State Parks	Union Grove	4 Mi. S.W. Gladbrook-Co.Rd.
IA	IDMR State Parks	Rock Creek	6 Mi. N.E. Kellogg-Co.Rd.
18	IDER State Parks	Viking Lake	4 Mi. S.E. Stanton-Co. Rd.
1A	IDMR State Parks	Volga River Rec Area	4 Mi. N. Fayette-IA 150
IA	IDER State Parks	Wapsipinicon	Adjoins Anamosa-E 34
IA	IDER State Parks	Lower Gar Access	.5 Mi. S.E. Armolds Park-US 71
IA	IDNR State Parks	Wildcat Den	10 Mi. E. Muscatine-IA.22
IA	IDNR State Parks	Lake of Three fires	3 Mi. N.E. Bedford-IA.49
IA	IDER State Parks	Ambrose A. Call	1.5 Mi. w.W. Algona
	IDNR State Parks	McIntosh Woods	.75 Mi. E.Ventura-US 18
IA		Triboji Beach	N.W. Shore W. Okoboji Lake
IA	IDWR State Parks IDWR State Parks	Prairie Rose	6 Mi. E.S. Harian
IA		Bixby	2 Mi. N. Edgewood
. TA	IDMR State Parks	Maquoketa Caves	7 Mi. H.w. Magwoketa-IA. 428
,IA	IDMR State Parks	Bresh Creek Canyon	2 Mi. H. Arlington
IA	IDMR State Parks	Bobwhite	1 Mi. W. Allerton-IA.40
IA	IDNR State Parks	Stephens Forest Camping	W. Lucas, E. Chariton-US 65-34
IA	IDMR State Parks	Marble Beach	2 Ni. N. W. Orleans-IA. 276
IA	IDMR State Parks	Walnut Woods	4 Mi. S.W. Des Moines-IA.5
IA	IDNR State Parks		6 Mi. S.E. Davis City-CO. Rd.
IA	IDNR State Parks	Nine Eagles	5 Mi. W. Loveland-IA 362
IA	IDNR State Parks	Wilson Island Rec. Area	3 Mi. W. Brighton-IA. 78 & 1
IA	IDNR State Parks	Lake Darling	2.5 Mi. S. Bellevue-US 52
IA	IDNR State Parks	Bellevue	8 Mi. H.W. Sioux City-IA 12
IA	IONR State Parks	Stone	4 Ni. E. Lehigh-Co.Rd.
IA	IDNR State Parks	Brushy Creek Rec. Area	S. Edge of Dubuque, from US 52
IA	IONR State Parks	Mines Of Spain	
IA	IDMR State Parks	Waubonsie	7 Mi. S.W. Sidney-IA 239-2
IA	IDNR State Parks	Red Haw	1 Mi. E. Chariton-U.S. 34 Lake View-IA. 175 & 71
IA	IDHR State Parks	Black Hawk	4 Mi. s.W. Strawberry Point IA. 410
IA	IDMR State Parks	Backbone	
IA	_ IDNR State Parks	Shimek Forest Camping	1 Mi. E. Farmington-IA.2 N. Shore Spirit Lake
I.A.	IDER State Parks	Mini-Wakan	n. Sugre spirit Lake
IA	MAS Wildlife Sanctuaries	None Kanan Banania	Konza Prairie Research Natural Area
KS	NPS Biosphere Reserve	Konza Pratrie	AUNZA FEATETE RESEATER MALVIAL AFEA
K\$	BIA Federal Indian Reservati		
KS	BIA Federal Indian Reservati		•
KS	BIA Federal Indian Reservati		
KS	BIA Federal Indian Reservati		
KS	COE Large Reservoirs	Milford lake	
KS	COE Large Reservoirs	Marton lake	Ĺ
KS	COE Large Reservoirs	Tuttle Creek Lake	***
KS	COE Large Reservoirs	John Redmond Res.	
KS	COE Large Reservoirs	Perry lake	
KS	COE Large Reservoirs	El Dorado Lake	
KS	COE Large Reservoirs	Clinton Lake	-
KS	COE Large Reservoirs	Wilson Lake	
	<u> </u>		

KS	FWS	National Fish Hatchery	Cedar Bluff NFH	
KS	NPS	National Parks	Fort Larmed Nat. Historic Site	6 Mi. W. Larned, Hwy. 156
KS	RPS	National Parks		Adjacent to Fort Scott bus. district
KS		National Wilderness Areas	None	N. Fork of Soloman River Valley
KS	FWS	National Wildlife Refuge		A. FORK UI SQUMEN KIVEL VALVEY
KS	FWS	National Wildlife Refuge	Quivira NWR	
KS	FWS	National Wildlife Refuge	Flint Hills NYR Marais Des Cygnes	
KS	FWS	National Wildlife Refuge National Wildlife Refuge	Univita	south-central Kansas
KS	FWS	Mational Wildlife Refuge	Kirvin KWR	200th 000010
KS	FWS	National Wildlife Refuge	Flint Hills	Neosho River Valley
KS KS	FWS FWS	National Wildlife Refuge	Narais Des Cygnes NWR	
KS Dougias	MPS	Natural Landmarks	Baldwin Woods	11 Ni. S. of Lawrence
KS Ottawa	NPS	Natural Landmarks	Rock City	2.5 Mi. S.W. of Minneapolis
KS Douglas	NPS	Naturai Landmarks	Baker University Wetlands	3 Mi. S. of Lawrence
KS Gove	MPS	Haturai Landmarks	Monument Rocks Natural Area	23 Mi. S. of Oakley
KS Clark	NPS	Naturai Landmarks	Big Basin Preserve	13 Hi. W.N.W. of Ashland
KS	001	Hat. Migratory Bird Refuges	Flint Hills	
KS	DO1	Hat. Nigratory Bird Refuges	Quivira	
KS	DOI	Hat. Migratory Bird Refuges	Kirwia	
KS Leavenworth	MPS	Nat. Scenic Rivers	Kansas River	I-635 to Delaware River
KS Wilson	NPS	Nat. Scenic Rivers	Fall River	Verdigris River to fall River take
KS #askeil	MPS	Nat. Scenic Rivers	Cimarron River	Hwy 23 E. of Liberal, KS to CO/KS line
KS Cowley	NPS	Nat. Scenic Rivers	Grouse Creek	Arkansas River to Cowley/County line
KS Chautauqua	MPS	Nat. Scenic Rivers	Camey River	KS/OK line to source
KS Wyandotte	NPS	Nat. Scenic Rivers	Kansas River	I-635 to Delaware River Fall River Reservoir to Hwy 96/MW of Blodgett
KS Greenwood	NPS	Nat. Scenic Rivers	Otter Creek and N. Branch	Wilson take to fairport
KS Russell	NPS	Nat. Scenic Rivers	Saline River	KS/OK line/Commanche County-Hwy 23,E of Liberal
KS Neade	NPS	Nat. Scenic Rivers	Cimarron River Medicine (Lodge) River	Geriane to beividere
KS Barber	NPS	Nat. Scenic Rivers	Cimarron River	Hwy 23 E. of Liberal, KS to CO/KS line
KS Heade	MPS	Hat. Scenic Rivers Nat. Scenic Rivers	Cimarron River	KS/OK line/Comanche County-Hwy 23,E of Libera-
KS Clark KS Summer	NPS NPS	Nat. Scenic Rivers	Chikaskia River	KS/OK line to May 2, M.E. of Runnymede
KS Stevens	NPS	Nat. Scenic Rivers	Cimarron River	Hwy 23 E. of Liberal, KS to CO/KS line
KS Seward	NPS	Nat. Scenic Rivers	Cimarron River	Hwy 23 E. of Liberal, KS to CO/KS line
KS Cherokee	NPS	Nat. Scenic Rivers	Shoal Creek	Spring River to source
KS E1k	NPS	Nat. Scenic Rivers	Fall River	Verdigris River to Fall River Lake
KS Cherokee	NPS	Nat. Scenic Rivers	Spring river	Hwy. 96 to Hwy. 44
KS Chase	MPS	Nat. Scenic Rivers	South Fork Cottonwood River	Cottonwood River to Little Cedar Creek
KS Grant	RPS	Nat. Scenic Rivers	Cimarron River	Hwy 23 E. of Liberal, KS to CO/KS line KS/OK line/Comanche County-Hwy 23,E of Liberal
KS Commanche	NPS	Nat. Scenic Rivers	Cimarron River	Verdigris River to Fall River Lake
KS Greenwood	NPS	Nat. Scenic Rivers	Fall River	Geriane to belvidere
KS Kiowa	KPS	Nat. Scenic Rivers	Medicine (Lodge) River	Smoky Hill River to RR Bridge S. of Woodbine
KS Geary	NPS	Nat. Scenic Rivers	Lyon Creek Kansas River	I-635 to Delaware River
KS Douglas	NPS	Nat. Scenic Rivers	Medicing (Lodge) River	KS/OK line to Gerlane
KS Barber	NPS	Nat. Scenic Rivers	Cimarron River	Hwy 23 E. of Liberal, KS to CO/KS line
KS Morton	NPS	Nat. Scenic Rivers	Arikaree River	KS/MB line to Alder Creek
KS Cheyenne	NPS unc	Nat. Scenic Rivers Nat. Scenic Rivers	Will Creek & W. & E. Branches	Kansas River to source of E. & W. Branches
KS Wabaunsee	HPS HPS	Nat. Scenic Rivers	Chikaskia River	KS/OK line to Hwy 2, M.E. of Runnymede
KS Harper KS Jefferson	NPS	Nat. Scenic Rivers	Kansas River	I-635 to Delaware River
KS Chase	NPS	Nat. Scenic Rivers	Cedar Creek	Cottonwood River to Chase/County line
KS Dickinson	NPS	Nat. Scenic Rivers	Lyon Creek	Smoky Hill River to RR Bridge S. of Woodbine
KS Johnson	NPS	Nat. Scenic Rivers	Kansas River	I-635 to Delaware River
KS Barton	THC	Project Areas	Cheyenne Bottome Wildlife Area	near Great Bend, KS.
KS	TNC	Project Areas	Konza prasrie	S. of Manhattan, KS
		•		

KS	USFS	Research Areas	None	
KS	KOWP	State Parks	El Dorado	RR 3, Box 29A, El Dorado, 67042
KS	KOWP	State Parks	Scott	RR 1, Box 50, Scott City, 67871
KS	KOWP	State Parks	Fall River	RR 1, Box 44, Toronto, 66777
KS	KOWP	State Parks	Prairie Dog	Box 431, Norton, 67654
KS	KDWP	State Parks	Loveveii	RR 1, Box 66A, Webber, 66970
KS	KOWP	State Parks	Perry	RR 1, Box 464A, Ozawkie, 66070
KS	KOWP	State Parks	Elk City	Box 845, Independence, 67301
KS	KOWP	State Parks	Cheney	RR 1, Box 167A, Chemey, 67025
KS	KOWP	State Parks	Wi Ison	RR 1, Box 181, Sylvan Grove, 67481
KS	KOWP	State Parks	Tuttle Creek	5020-8, Tuttle Cr. Blvd., Manhattan, 66582
KS	KOWP	State Parks	Clinton	798 H. 1415 Rd, Lawrence, 66649
KS	KOWP	State Parks	Pomona	RR1, Box 118, Vassar, 66543
KS	KOWP	State Parks	Cedar Bluff	P.O. 76A, Ellis, 67637
KS	KDWP	State Parks	Hillsdale	26001 W. 255th St. Paola, 66871
KS	KDWP	State Parks	Glen Elder	Box 162A, Glen Eider, 67446
KS	KDWP	State Parks	Crawford	Farlington, 66734
KS	KOWP	State Parks	Xeade	Box K, Meade, 67864
KS	KOWP	State Parks	Toronto	RR 1, Box 44, Toronto, 66777
KS	KDAS	State Parks	Eisenhower	RR2, Box 306, Osage City, 66523
KS	KOWP	State Parks	Sand Hills	4207 E. 56th, Rte 5, Hutchinson, 67502
KS	KOWP	State Parks	Mushroom Rock	RR1, Box 26D, Marquette, 67464
KS	KOWP	State Parks	Wilford	8811 State Park, Wilford, 66514
KS -	KOWP	State Parks	Kamopolis	RR 1, Box 26D, Marquette, 67464
KS	KOWP	State Parks	Vebster	RR 2, Box 153, Stockton, 67669
KS	HAS	Wildlife Sanctuaries	None	
MO	NPS	Biosphere Reserve	None	
MO	COE	Large Reservoirs	Mark Twain Lake	
MO	COE	Large Reservoirs	Stockton Lake	
MO	COE	Large Reservoirs	Smithville Lake	
MO	COE	Large Reservoirs	Table Rock Lake	
NO	COE	Large Reservoirs	Harry S. Truman Res.	
MO	COE	Large Reservoirs	Pomme De Terre Lake	
MO	COE	Large Reservoirs	Wappapeilo Lake	
MO	FYS	National Fish Hatchery	Neosbo MFH	
MO	FWS	National Fish Hatchery	Columbia Nat. Fisheries Lab	•
MO	FWS	National Fish Hatchery	Noesho NFH	Neosho
MO	USDA/F	5 National Forests	Mark Twain Nat. Forest	
MO	NPS	National Parks	Wilson's Creek Mat. Battlefiel	d 10 Ni. S.W. of Springfield
MO	NPS	National Parks	Jefferson Nat. Expansion Nemor	naMississippi Riverfront/St. Louis
MO	NPS	National Parks	Harry Truman Mat. Historic Sit	e Truman Rd. & Main St./Independence
MO	KPS	National Parks	George Washington Nat. Monumen	T / M1. 5. OT 1.44
MO	NPS	Mational Parks	Ulysses 5. Grant Historic Site	9060 White Haven Dr./St. Louis
MO	NPS	National Parks		s 134 Mi. of Jacks Fork & Current Rivers
MO	MPS	National Scenic River	- Ozark MSR	Manh Tunin' ME
MO	.USFS	National Wilderness Areas	Piney Creek	Mark Twain NF
МО	FWS	National Wilderness Areas	Mingo	Mingo MVR
MO	USFS	National Wilderness Areas	Bell Mountain	Mark Twain NF
MO	USFS	National Wilderness Areas	Hercules Glades	Mark Twain NF Mark Twain NF
MO	USFS	National Wilderness Areas	Irish Daddu Ceaab	Mark Twain NF
MO	USFS	National Wilderness Areas	Paddy Creek	Mark Twain NF
MO	USFS	National Wilderness Areas	Devil's Backbone	
MO	USFS	National Wildlife Refere	Rockpile Mountain	Mark Twain NF
MO	FWS	National Wildlife Refuge	Swan take NVR	
MO	FWS	National Wildlife Refuge	Clarence Cannon MWR	
MO	FWS	National Wildlife Refuge	Ozark Cavefish NWR	

MO		FYS	National Wildlife Refuge	Mingo NWR	
MO		FVS	National Wildlife Refuge	Pilet Knob MWR	
MO		FYS	National Wildlife Refuge	Squaw Creek NWR	Assada
MO		FYS	National Wildlife Refuges	Clarence Cannon	near Annada
MO			National Wildlife Refuges	Svan Lake	near Summer, NO
MO		FYS	National Wildlife Refuges	Ningo	near Puxico
MO		FWS	Mational Wildlife Refuges	Squay Creek	near Mound, MO
MO Crav		NPS	Natural Landmarks	Onondaga Cave Nanie Woods Natural Area	5 Mi. S.W. of Leasburg
NO Clay		NPS	Natural Landmarks	Golden Prairie	16 Mi N E of Carthago
MO Bart		NPS	Haturai Landmarks Maturai Landmarks	Taberville Prairie	16 Mi N.E. of Carthage 2.5 Mi. N. of Taberville
NO St.		NPS			Big Oak Tree State Park
		NPS	Maturai Landmarks	Big Oak Tree Tucker Prairie	7 Mi. M.M.W. of Fulton
MO Call		NPS NPS	Haturai Landmarks Haturai Landmarks	Maranec Spring	8 Mi. S.E. of St. James
MO Phe				· · · · · · · · · · · · · · · · · · ·	.25 Ni. W. of Holstein
NO War		NPS NPS	Natural Landmarks	Wegener Woods Wark Twain & Cameron Caves	2 Mi. S.E. of Hannibal
MO Mari	-		Natural Landmarks	Grand Gulf	8 Mi. W. of Thayer
MO Ore	•	NPS NPS	Katurai Landmarks Naturai Landmarks	Narvei Cave	50 Mi. S. of Springfield
NO Stor		RPS	Naturai Landmarks	Carroil Cave	Private
NO Cami		MPS	Natural Landmarks	Greer Spring	52 Ni. W. of Poplar Bluff
MO Ores	•	NPS	Natural Landmarks	Tumbling Creek Cave	AT MIT WE OF TOPIES OF THE
MO Tan		HPS	Natural Landmarks	Cupola Pond	Mark Twain Nat. Forest
	. Genevieve		Naturai Landmarks	Pickle Springs	7 Mi. E. of Farmington
NO SEE	. DEREVIEVE	DOI	Nat. Migratory Bird Refuges	Swan Lake	i ni. c. oi reraingcon
MO	•	DOI	Nat. Migratory Bird Refuges	Hingo	·
MO		IOC	Nat. Migratory Bird Refuges	Squar Cr.	
MO		DOI	Nat. Migratory Bird Refuges	Clarence Canvon	
MO Cra	wined	NPS	Nat. Scenic Rivers	Meraget River	Meramec State Park to Cook Station
MO Cra		RPS	Nat. Scenic Rivers	Bourbeuse River	Hoser Hill to Highway B
MO Kno		NPS	Nat. Scenic Rivers	Middle Fabius River & N. Fork	N. Fabius River to source
MO Cha		NPS	Nat. Scenic Rivers	Locust Creek	Grant River to Hwy. 36
MO Ced		NPS	Nat. Scenic Rivers	Cedar Creek	Sac River to source
MO Dou		NPS	Nat. Scenic Rivers	Bryant Creek	N. Fork White River to Hwy. 14
	conade	NPS	Nat. Scenic Rivers	Bourbeuse River	Noser Will to Highway B
MO New	rton	NPS	Nat. Scenic Rivers	Shoai Creek	•
MO Sch	uyler	NPS	Nat. Scenic Rivers	Niddle Fabius River & N. Fork	N. Fabius River to source
NO St.	Francois	KPS	Nat. Scenic Rivers	St. Francis River	Lake Wappapello to Syemite
NO Sco	tland	NPS	Nat. Scenic Rivers	Middle Fabius River & M. Fork	N. Fabius River to source
MO Dou	ıglas	MPS	Nat. Scenic Rivers	North Fork White River	Norfork Lake to source
MO Kno	x	NPS	Nat. Scenic Rivers	South Fabius River	County Hwy. E. to confluence of M. & S. Forks
MO Tex		NPS	Hat. Scenic Rivers	North Fork White River	Norfork Lake to source
MO Lin		NPS	Nat. Scenic Rivers	West Fork Cuivre River	Cuivre River to County Hwy. AC
MO Boo		NPS	Nat. Scenic Rivers	Cedar Creek	Missouri River to Hwy. WW
	ntgomery	NPS	Nat. Scenic Rivers	West Fork Cuivre River	Cuivre River to County Hwy. AC
	rrence	NPS	Nat. Scenic Rivers	Spring River	Highway 96 to Hwy. 44
MO Dad		NPS	Nat. Scenic Rivers	Cedar Creek	Sac River to source
	ynolds	NPS	Nat. Scenic Rivers	Black River	Hwy. K to source
	shington	NPS	Nat. Scenic Rivers	Nineral Fork	Big River to Hwy. F
	anklin	NPS	Nat. Scenic Rivers	Bourbeuse River	Noser Mill to Highway B
MO Ph	•	KPS	Nat. Scenic Rivers	Meranec River	Meramec State Park to Cook Station
MO Les		MPS	Nat. Scenic Rivers	Middle Fabius River 4 N. Fork	N. Fabius River to source
	llaway	NPS	Mat. Scenic Rivers	Cedar Creek	Missouri River to May. W
MO Ba	•	NPS	Nat. Scenic Rivers	Shoai Creek	Spring River to source
NO Oz	-	NPS	Nat. Scenic Rivers	Bryant Creek	N. Fork White River to Huy. 14
MO Ma		NPS	Nat. Scenic Rivers	St. Francis River	Lake Wappapello to Syemite
MO 50	llivan	NPS	Nat. Scenic Rivers	Locust Creek	End channelization to sect. 28

REGION VII

MO	Ozark	NPS	Nat. Scenic Rivers	North Fork White River	Norfork Lake to source
	Crawford	NPS	Nat. Scenic Rivers	Courtois Creek	Huzzah Creek to Brazil
MO	Livingston	NPS	Nat. Scenic Rivers	Locust Creek	Grant River to Hwy. 36
MO	Franklin	NPS	Nat. Scenic Rivers	Meramec River	Meramec State Park to Cook Station
MO	Phelps	NPS	Nat. Scenic Rivers	Bourbeuse River	Noser Will to Highway B
MO	Washington	NP\$	Nat. Scenic Rivers	Courtois Creek	Huzzah Creek to Brazil
MO	Jasper	NPS	Wat. Scenic Rivers	Jasper & Lawrence	OOI/National Park Service
	Washington	NP\$	Nat. Scenic Rivers	Meramec River	Meramec State Park to Cook Station
	Daviess	MPS	Nat. Scenic Rivers	Marroybone Creek	Hwy. 13 to I-35
	Lian	NPS	Nat. Scenic Rivers	Locust Creek	Grant River to Hwy. 36
	Wayne	NPS	Nat. Scenic Rivers	St. Francis River	Lake Wappapello to Syenite
•	Crawford	HPS	Nat. Scenic Rivers	Huzzah Creek	Meramec River to Dillard
MO		TNC	Project Areas	None	
MO		USFS	Research Areas	None	
	Jasper	THC	St Conservancy Preserves	Wha-Sha-She Prairie	
-	Laciede	TNC	St Conservancy Preserves	Bennett Spring Savanna	
	Dent	THC	St Conservancy Preserves	Hyer Woods	
	Crawford	THC	St Conservancy Preserves	Zahorsky Woods N. B. Altvater Shut-in-Mnth Fen:	_
	Shannon	THC	St Conservancy Preserves	Little Osage Prairie	5
	Vernon	TNC	St Conservancy Preserves	Pawhuska Prairie	
	Barton Vernon	TNC	St Conservancy Preserves St Conservancy Preserves	Marmaton R. Bottoms Wet Prairie	
_	Barton	THC	St Conservancy Preserves	Shelton L. Cook Memorial Meadow	
	Vernon	THC	St Conservancy Preserves	Gamagrass Meadows	•
	Douglas	THC	St Conservancy Preserves	Alma Peterson Azalea Memorial	•
	Nodaway	TNC	St Conservancy Preserves	Dobbins Woodlands	
	Douglas	THC	St Conservancy Preserves	Williams Memorial Woods	
	Levis	TRC	St Conservancy Preserves	Acceia Woods	
_	Barton	THC	St Conservancy Preserves	Tri-Sho Prairie	
	Jefferson	TNC	St Conservancy Preserves	N. B. Altvater LaBarque Hills	
MO	Saint Clair	THC	St Conservancy Preserves	Lichen Glade	
MO	Saint Francois	TNC	St Conservancy Preserves	Silas Dees Azalea & Wildflower	
MO	Dade	TNC	St Conservancy Preserves	N. B. Altvater Corry Flatrocks	
MO	Reynolds	THC	St Conservancy Preserves	Lily Pond	
MO	Dade	TNC	St Conservancy Preserves	Greenfield Glade	
MO	Barton	TRC	St Conservancy Preserves	Hunkah Prairie	
	Beston	THC	St Conservancy Preserves	Rockhill Prairie	
-	Holt	TNC	St Conservancy Preserves	J. C. McCormack Loess Mounds	
	Saint Clair	THC	St Conservancy Preserves	Wah 'Kon-Tah Prairie	
	Boone	THC	St Conservancy Preserves	Hinkson Valley	
	Cedar	THC	St Conservancy Preserves	Wo-Ko Prairie	
	Reynolds Cedar	TNC THC	St Conservancy Preserves St Conservancy Preserves	N.B. Altvater Grasshopper Hollo Homegaw Prairie	•
	Clinton	THC	St Conservancy Preserves	Trice-Dedman Memorial Woods	•
	Lawrence	TNC	St Conservancy Preserves	Mount Vernon Prairie	
	Ripley	THC	St Conservancy Preserves	N. B. Altvater Pondberry	
) Jefferson	THC	St Conservancy Preserves	Victoria Glade	
	Dade	THC	St Conservancy Preserves	Niawathe Prairie	
MC		NAS	Wildlife Sanctuaries	Nose	
NE		NPS	Biosphere Reserve	None	•
NE		BIA	Federal Indian Reservation	Onaha	L
NE		BIA	Federal Indian Reservation	Santee Sioux	•
NE		BIA	Federal Indian Reservation	Winnebago	
NE		COE	Large Reservoirs	Harian County Lake	
NE		FTS	National Fish Hatchery	Crawford NFH	
NE		NPS	National Parks	Agate Fossii Beds Nat. Monument	20 Mi. N. Harrison

ENVIRONMENTALLY SENSITIVE AREAS

			•		n . Otata Bark W to bondon
NE		NPS	National Parks	Missouri Nat. Recreational River	Pronca State Park, N. to Dorder
NE		NPS	National Parks	Homestead Nat. Monument of Ameri	14.3 Ml. W. OT BESTFICE
NE		NPS	National Parks	Chimney Rock Nat. Historic Site	5 Mi. S.W. of Scottsbluff
NE		NPS	National Parks	44444 21011 11001 110110	Fort Miobrara MWR
NE		F¥5	Hational Wilderness Areas	Fort Niobrara	Nebraska AF
NE		USFS	Hational Wilderness Areas	Soldier Creek	MEDICONG MI
NE		FVS	National Wildlife Refuge	North Phorth Platte NWR	
NE		FVS	National Wildlife Refuge	Fort Miobrara MWR Karl E. Mundt MWR	
#E		FVS	Mational Wildlife Refuge	Valentine NWR	
NE		FVS	Mational Wildlife Refuge		•
NE		FYS	National Wildlife Refuge	De Soto NWR Crescent Lake NWR	
NE	•	FVS	Mational Wildlife Refuge	Fonteneile Forest	1 Ni. S. of Omaha
	Sarpy	NPS	Hatural Landmarks Hatural Landmarks	Kissected Loess Plains	17 Mi. S.S.W. of Brady
	Lincoln	NPS	Materai Landmarks	Nebraska Sand Hills	Immediately S. of Hyannis
	Grant	NPS	Naturai Landmarks	Valentine Nat. Wildlife Refuge	
	Cherry	NPS	Nat. Migratory Bird Refuges		
NE		100	Nat. Migratory Bird Refuges	Valentine	
NE	* 1	DOI	Nat. Scenic Rivers	Middle Loup River	Milburn Diversion Dam to source
_	Thomas	NPS	Nat. Scenic Rivers	Niobrara River	Keya Paha River to Antelope Creek
	Holt	NPS NPS	Nat. Scenic Rivers	Dismai River	Hiddle Loup River to source
	Thomas Knox	NPS NPS	Hat. Scenic Rivers	Rightara River	Missouri River to Keya Paha River
		NPS	Nat. Scenic Rivers	Calams River	Horth Loup River to source
	Garfield	NPS .	Nat. Scenic Rivers	Niddle Loup River	Milbura Diversion Das to source
	Blaine Cherry	RPS	Nat. Scenic Rivers	Spake River	Hiobrara River to source
	Holt	NPS	Nat. Scenic Rivers	Nightara River	Missouri River to Keya Paha River
	Sheridan	NPS	Nat. Scenic Rivers	Snake River	Niobrara River to source
	Blaine	NPS	Nat. Scenic Rivers	Dismal River	Middle Loup River to source
	Boyd	MPS	Nat. Scenic Rivers	Nissouri River	Running Water, SD to Fort Randall Dam
	Boyd	NPS	Nat. Scenic Rivers	Niobrara River	Keya Paha River to Antelope Creek
	Hooker	NPS	Nat. Scenic Rivers	Niddle Loup River	Milburn Diversion Dam to source
	Keya Paha	NPS	Nat. Scenic Rivers	Niobrara River	Keya Paha River to Antelope Creek
	Rock	NPS	Nat. Scenic Rivers	Long Pine Creek	Niebrara River to source
	Brown	NPS	Nat. Scenic Rivers	Niobrara River	Keya Paha River to Antelope Creek
NE	Brown	NPS	Nat. Scenic Rivers	Long Pine Creek	Niebrara River to source
NE	Boyd	NPS	Nat. Scenic Rivers	Niobrara River	Missouri River to Keya Paha River
NE	Knox	NPS	Nat. Scenic Rivers	Hissouri River	Running Water, SD to Fort Randall Dan North Loup River to source
NE	Brown	nps	Nat. Scenic Rivers	Calanus River	Keya Paha River to Antelope Greek
NE	Cherry	NPS	Nat. Scenic Rivers	Kiebrara River	Keya Paha River to Antelope Greek
	Rock	NPS	Nat. Scenic Rivers	Niobrara River	North Loup River to source
	Loup	_ NPS	Nat. Scenic Rivers	Calamus River Calamus River	Horth Loup River to source
	Rock	NPS	Nat. Scenic Rivers	Middle Loup River	Hilburn Diversion Dam to source
	Cherry	NPS	Nat. Scenic Rivers	Kioya WMA	Milder Angelon and an annual
	Scotts Bluff	TNC	Project Areas	Arapaho Prairie	
	Arthur	THC	Project Areas	Willa Cather Memorial Prairie	•
	Webster	THE	Project Areas	Paysee Prairie WA	
	E Pawnee	THC	Project Areas	Marsh Hawk WMA	
	E Fillmore	THE	Project Areas	Real WPA	
	E fillmore	THC	Project Areas	Niobrara Valley Preserve	•
	E Cherry, Brown		Project Areas Project Areas	Cuming City Cemetery	· ·
	E Washington	THC	Project Areas	Platte River	
H	-	THC	Project Areas	Rulo Bluffs	
	E Richardson	THE	Project Areas	Prairie march WMA	
	E Thayer	TNC	Project Areas	Huskrat Run BMA	302 acres, N. Platte River
	E Lincoln	THE	Project Areas	Graves Ranch	·
II.	E Garden	: #U	. rajeas m esa		

..VIRONMENTALLY SENSITIVE AREAS

REGION VII ACT

NE Scotts Bluff NE Thomas	TNC USFS	Project Areas Research Areas	Scotts Bluff Monument Signal Hill	
NE Rock	NAS	Wildlife Sanctuaries	Niobrara River	Rock County, NE
NE	NAS	Wildlife Sanctuaries	Lillian Annette Rowe	Gibbon, NE

COE = U.S. Army Corps of Engineers
NPS = DOI/National Park Service
FWS = Fish & Wildlife Service
DOI = Department of the Interior
TNC = The Nature Conservancy
USFS = United States Forest Service
NAS = National Audubon Society

IONR = Iowa Department of Natural Resources
KDWP = Kansas Department of Wildlife & Parks

BIA = Bureau of Indian Affairs

#1. Wetlands

Due to the large number of wetlands in Region VII, wetlands are not listed on the following list of ESAs. Instead, a listing of wetland map names is available through EPA Region VII, 25 Funston Road, Kansas City, Kansas, 66115, (913) 551-5000. Maps of the wetlands categorized in Region VII are available through:

Department of the Interior Geological Survey Reston, Virginia 22092.

The following list is an example of the wetland map names contained within the database at EPA Region VII. Locating a particular area is illistrated in the following figures.

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NWI MAPS IN THE WETLANDS PROTECTION SECTION: [SCALE=1:RATIO]
[MAP PRODUCTS: D=DRAFT, F=FINAL, P=PHOTO-ENLARGEMENT]
[# & TYPE PRODUCTS: NUMBER PER MAP PRODUCT]
[GIS PRODUCTS: D=DIGITIZED, A=ARCINFO FORMAT]

GIS (D, A)

MAP UNIT	ST	MAP MAP SCALE STATUS (1:_) D,F,P	# & TYPE PRODUCTS	PUB PHOTO YEAR DATE
# 2362				
Q=AINSWORTH 42099-E1 Q=ALEDO 41090-A1 Q=ALLIANCE 42102-A1 Q=AMES 42093-A1 Q=ANAMOSA 42091-A1 Q=ARTHUR 41101-E1 Q=ATCHISON 39095-E1 Q=ATKINSON 42098-E1 Q=AUSTIN 43092-E1 Q=BEATRICE 40096-A1 Q=BLAIR 41096-E1 Q=BROKEN BOW 41099-A1	NE IA NE KS-MO NE MN-IA NE NE NE	100000 F 100000 D 100000 F 100000 F	32 F 6 F, 6 D 32 F 32 D 32 D 32 F 32 D 30 F 6 D 32 F 32 F 32 F 32 F 32 F	1988 / /
Q=BURLINGTON 40091-E1	IA NE	100000 D,F 100000 F	32 F	/ /
Q=BURWELL 41099-E1 Q=BUTLER 38094-A1 Q=CAPE GIRARDEAU	MO MO	100000 F 100000 P/F	32 F 9 P/15 F	, ,
37089-A1 Q=CARBONDALE 37089-E1	МО	100000 P/F	16 P/5 F	/ /
MO-IL Q=CARROLL 42094-A1 Q=CENTERVILLE 40092-E1 Q=CHAPPELL 41102-A1 Q=CHARLES CITY 43092-A1	IA	100000 D 100000 D 100000 F 100000 F	32 D 32 D 32 F 32 F	/ / / / / /
Q=CHEYENNE 41104-A1 Q=CHILLICOTHE 39093-E1 Q=CHUGWATER 41104-E1 Q=CODY 42101-E1 Q=CRAWFORD 42103-E1 Q=CRESCENT LAKE	WY-NE MO WY-NE NE NE NE	100000 F,P	4 D 31 F, 48P 4 D 32 F 32 F 32 F	1993 / / / / / / / /
41102-E1 Q=CRESTON 41094-A1 Q=DAVENPORT 41090-E1 Q=DAVID CITY 41097-A1 Q=DECORAH 43091-A1 Q=DES MOINES 41093-E1 Q=DISMAL RIVER	IA IA NE IA IA NE	100000 D 100000 D 100000 F 100000 D 100000 F	32 D 26 D 32 F 30 D 32 D 32 F	/ / / / / / / / / / / / / / / / / / /
41130-E1 Q=DODGE CITY 37100-E1 Q=DUBUQUE NORTH	KS IA-WI	100000 F 100000 D	32 F 6 D	1990 / /
42090-E1 Q=DUBUQUE SOUTH	IA	100000 P	36 P	/ /
42090-A1 Q=ESTHERVILLE 43094-A	l IA	.100000 F	32 F	/ /

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NWI MAPS IN THE WETLANDS PROTECTION SECTION: [SCALE=1:RATIO]

[MAP PRODUCTS: D=DRAFT, F=FINAL, P=PHOTO-ENLARGEMENT]

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[GIS PRODUCTS: D=DIGITIZED, A=ARCINFO FORMAT]

MAP UNIT	ST			# & TYPE PRODUCTS	PUB YEAR	PHOTO DATE	GIS (D, A)
Q=FAIRMONT 43094-E1 Q=FALLS CITY 40095-A1 Q=FARMINGTON 37090-E1 Q=FESTUS 38090-A1 Q=FREMONT 41096-A1	IA MO MO MO NE MO NE NE NE	100000 100000 100000 100000 100000 100000 100000 100000	F PDF F F F F F F	32 F 7 F 33P/7D/11F 32 F 26 F 32 F 32 F, 50P 32 F 32 F 32 F 32 F	1993		
40098-E1 Q=GREAT BEND 38098-A1 Q=GRINNELL 41092-E1 Q=GUTHRIE CENTER - 41094-E1		100000 100000 100000	D	32 F 32 D 32 F		1, 1,	
Q=GUYMON 36101-E1 Q=HARLAN 41095-E1 Q=HARRY S.TRUMAN RESV 38093 A1	KS-OK IA MO NE	100000 100000 100000	F	8 D 32 F 32 F	1 99 3	///	
Q=HEMINGFORD 42103-A1 Q=HOLDREGE 40099-A1 Q=HUGOTON 37101-A1 Q=HUMBOLDT 42094-E1 Q=IDA GROVE 42095-A1 O=IMPERIAL 40101-E1	NE KS IA IA NE	100000 100000 100000 100000) F) F) D	32 F 32 F 32 D 32 D 32 F		/ / / / / /	
Q=IMPERIAL 40101-E1 Q=INDIANOLA 41093-A1 Q=IOWA CITY 41091-E1 Q=IOWA FALLS 42093-E1 Q=IOWA GREAT LAKES 43095-A1	IA IA	100000	D D	32 D 32 D 32 D 32 F		///////////////////////////////////////	
Q=JEFFERSON CITY 38092-E1 Q=JERSEYVILLE 39090-A1 Q=JOPLIN 37094-A1 Q=KANSAS CITY	MO-ks	100000	0 F	48 P 10 F 30 P 4D,44P,28E	7	/ /	
39094-A1 Q=KEARNEY 40099-E1 Q=KEOKUK 40091-A1 Q=KIMBALL 41103-A1 Q=KINSLEY 37099-E1	NE KS	10000 10000 10000	0 F 0 F 0 F	32 F 32 F 32 F 32 F		/ / / / / /	
Q=KIRKSVILLE 40092-A1 Q=LA CROSSE 43091-E1 Q=LAKE OF THE OZARKS 38092-E Q=LARNED 38099-A1	MO MN-IA MO KS	10000 10000 10000	0 F	48 P 7 F 32 F 32 F	199	3 / /	

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NWI MAPS IN THE WETLANDS PROTECTION SECTION: [SCALE=1:RATIO] [MAP PRODUCTS: D=DRAFT, F=FINAL, P=PHOTO-ENLARGEMENT]
[# & TYPE PRODUCTS: NUMBER PER MAP PRODUCT]

[GIS PRODUCTS: D=DIGITIZED, A=ARCINFO FORMAT]

GIS (D, A)

MAP UNIT	ST	MAP MAP SCALE STATUS (1:_) D,F,P	# & TYPE S PRODUCTS		HOTO ATE
Q=LAWRENCE 38095-E1 Q=LEBANON 37092-E1 Q=LEON 40093-E1 Q=LEOTI 38101-A1 Q=LIBERAL 37100-A1 Q=LINCOLN 40096-E1 Q=LUSK 42104-E1 Q=MACON 39092-E1 Q=MANHATTAN 39096-A1 Q=MARSHALL 39093-A1 Q=MARSHALLTOWN 42092-A1	KS MO IA-MO KS KS NE WY-NE MO KS MO IA	100000 D 100000 P,F 100000 F 100000 F 100000 F 100000 D 100000 P 100000 P,F 100000 P/D			///////////////////////////////////////
Q=MARYVILLE 40094-A1 Q=MASON CITY 43093-A1 Q=MEXICO 39091-A1 Q=MOBERLY 39092-A1 Q=MT AYR 40094-E1 Q=MULLEN 42101-A1 Q=MUSCATINE 41091-A1 Q=NEBRASKA CITY	MO MO-IA NE IA	100000 P 100000 F 100000 F,P 100000 P 100000 F 100000 D 100000 F	48 P 32 F 32 F 32 F, 49 17 P 32 F 32 D 32 F	P 1993 1992	
40095-E1 Q=NEOSHO 36094-A1 Q=NEVADA 37094-E1 Q=NORFOLK 42097-A1 Q=NORTH PLATTE 41100-A1	MO MO NE NE	100000 F 100000 F 100000 F	32 F 32 F 32 F 32 F		////
Q=O'NEILL 42098-A1 Q=OELWEIN 42091-E1 Q=OGALLALA 41101-A1 Q=OLATHE 38094-E1 Q=OMAHA 41095-A1 Q=ORD 41098-E1 Q=OSKALOOSA 41092-A1 Q=POPLAR BLUFF	NE IA NE KS-MO IA NE IA MO MO	100000 F 100000 D 100000 D,P 100000 F 100000 F 100000 D 100000 F	30 F 32 D 32 F 16 D,29 T 32 F 30 F 32 D 32 F 32 F	?	///////////////////////////////////////
36090-E1 Q=PROTECTION 37099-A1 Q=QUINCY 39091-E1 Q=RED CLOUD 40098-A1 Q=ROCK RAPIDS 43096-A1 Q=ROSE 42099-A1 Q=SAINT JOSEPH 39094-E1 Q=SAINT LOUIS 38090-E3	MO-II NE IA-SI NE MO-KS	100000 F 100000 F 100000 F 100000 F 100000 P,D	2 9 F	D 1993	
Q=SAINT PAUL 41098-A1 Q=SCOTT CITY 38100-A1	n e Ks	100000 F 100000 F	32 F 32 F		///

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NWI MAPS IN THE WETLANDS PROTECTION SECTION: [SCALE=1:RATIO]

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[# & TYPE PRODUCTS: NUMBER PER MAP PRODUCT]

[GIS PRODUCTS: D=DIGITIZED, A=ARCINFO FORMAT]

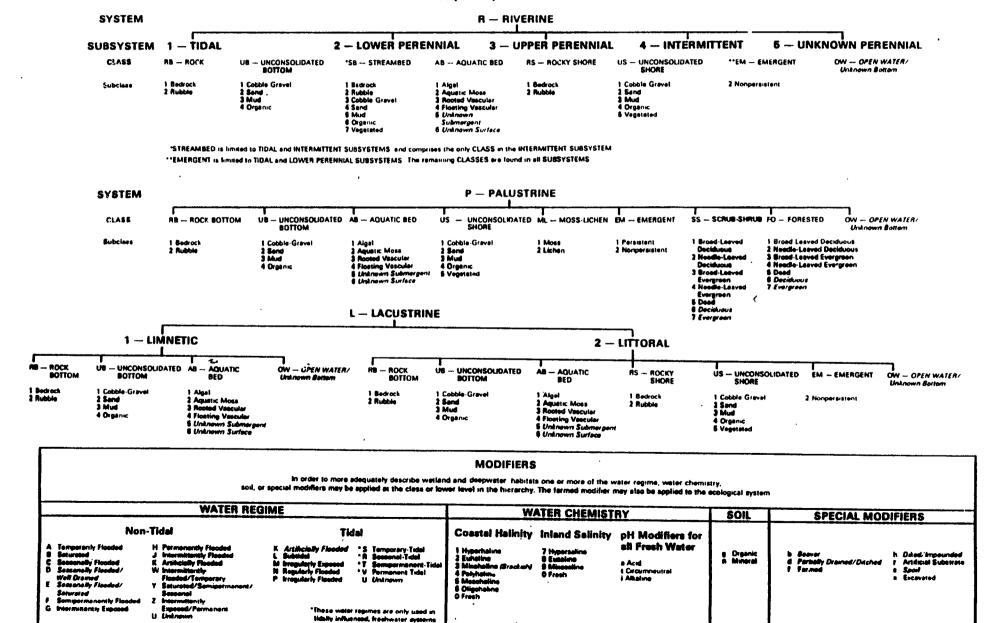
MAP UNIT	ST		MAP STATUS D,F,P	# & TYPE PRODUCTS	PUB PHOTO YEAR DATE	GIS (D, A)
Q=SCOTTSBLUFF 41103-E1 Q=SEDALIA 38093-E1 Q=SIKESTON 36089-E1	NE MO MO	100000 100000 100000	P D/F	32 F 49 P 11D/21F	. / /	
Q=SIOUX CITY NORTH 42096-E1		100000		28 F	/ /	
Q=SIOUX CITY SOUTH 42096-A1	IA-NE	100000		32 F	/ /	
Q=SIOUX FALLS 43096-E1				3 F	/, /,	
Q=STANTON 41097-E1	NE	100000		32 F	/, /,	
Q=STORM LAKE 42095-E1	IA	100000		32 D		
Q=TOPEKA 39095-A1	KS	100000	D	32 D		
Q=TORRINGTON 42104-A1	WY-NE	100000	F	4 F	/ /	
Q=TRENTON 40093-A1	MO	100000	P	50 P	/ /	
Q=ULYSSES 37101-E1	KS	100000	F	32 F	/ /	
Q=VALENTINE 42100-E1	NE	100000		32 F	//	
Q=WAVERLY 42092-E1	IA	100000		32 D	, ,	
Q=YANKTON 42097-E1	NE	100000		24 F	'/ /	
Q=YORK 40097-E1	NE	100000		32 F	', ',	
*** Total ***			- •	•	•	
		****	•			

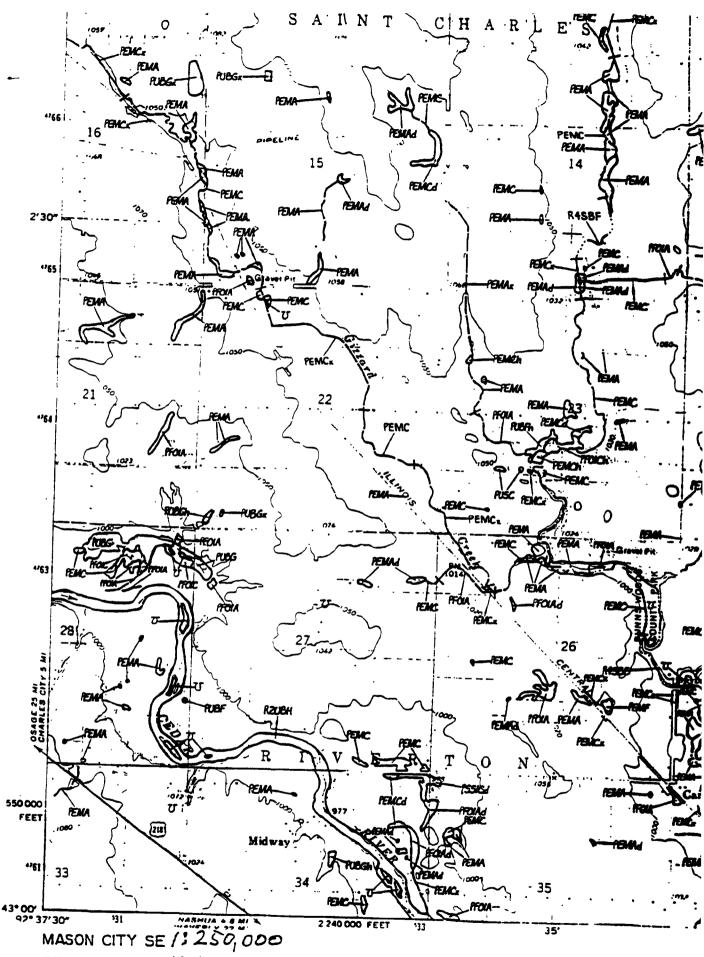
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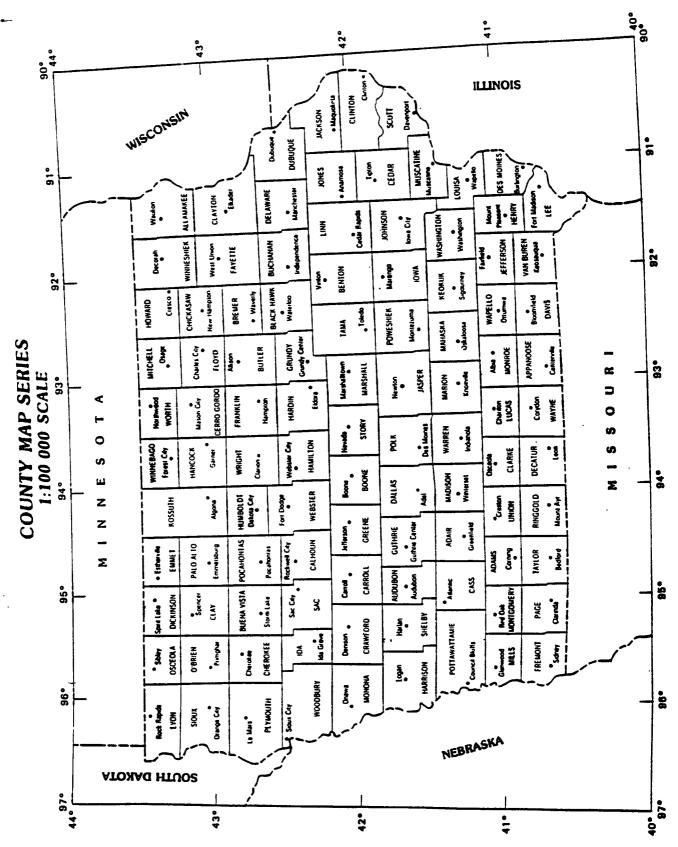
FISH AND WILDLIFE SERVICE

Prepared by National Wetlands Inventory





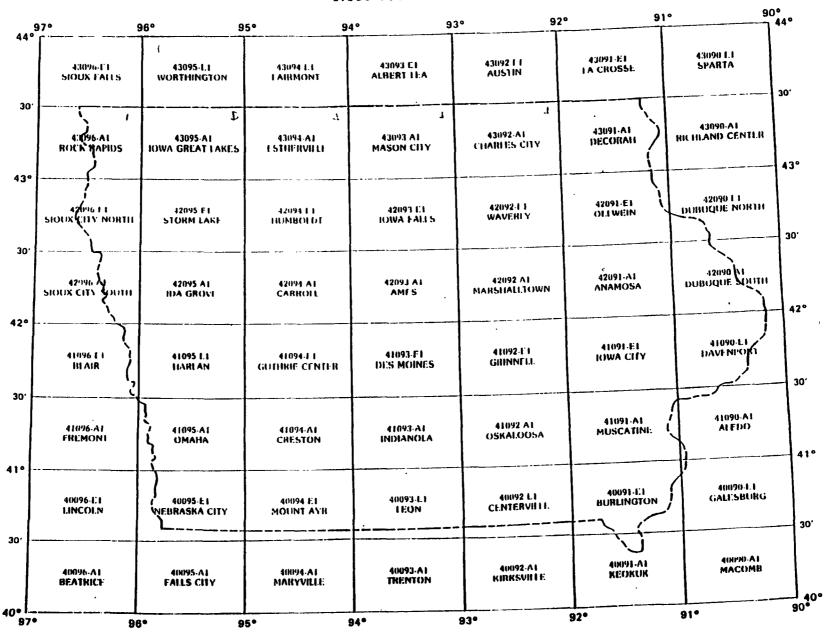
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· County Seat

and Man Order Forms

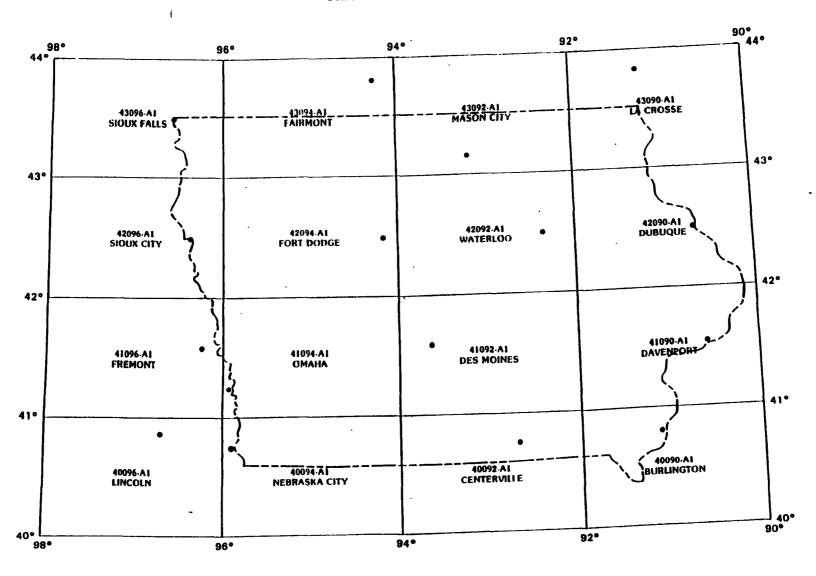
30 X 60 MINL SERIES 1:100 000 SCALE



1:100,000-scale maps are planned for the entire State

See CATALOG OF PUBLISHED MAPS for available maps, dates, prices, and Map Order Forms

1 X 2 DEGREE SERIES 1:250 000 SCALE



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7.5 MINUTE QUADRANGLE NAMES

Al	Want oma	C3	Harmony
A2	Lawler	1.2	Greenleafton
A3	New Hampton	E3	Cherry Grove
A4	lonia	E4	Ostrander
A5	Bassell	E5	Le Roy
46	Charles City	E6	Adams
A7	Roseville	E7	Rose Creek
AB	Rockford	£8	l.yle
B1	Protivin	FI	Preston
B2	Saude	Γ2	Fountain
B3	Jerico	13	Wokoff
84	Elma	F4	Spring Valley
85	Colacil	F5	
136	Flord	F6	Dexice
117	Orchard	17	Brownsdale
88	Rudd	F8	Austin East
CI	Cresco SE	GI	Pilot Mound
€2	Cresco SW	G2	Chaifield
(3	1.ourdes	G3	Washington
C4	Saratoga	G4	Stewartville
C5	Riceville	G5	High Forest
(6	New Haven	G6	High Lorest SW
(7	Osage	G7	Sargeant
C3	Osage SW	G8	Waltham
DI	Cresco NE	HI	St. Charles
1)2	Cresco NW	112	Eyota
$\mathbf{D3}$	Lime Springs	113	Marion
1):1	Lime Springs NW	114	Simpson
D5	McIntire	H5	Salem Corners
1)6	Little Cedar	116	Rock Dell
1)7	Stacyville	117	Hayfield
Da	St. Ansgar	118	Haylield NW

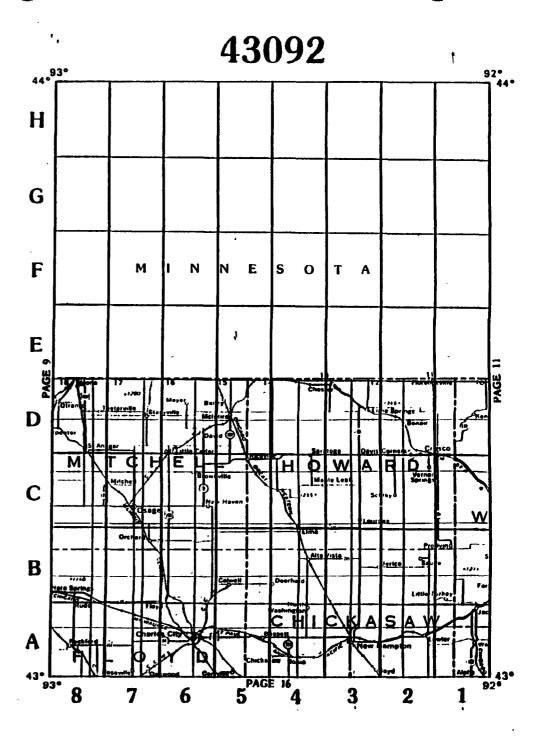
fowa is completely covered by 7.5-minute maps

Certain areas may be covered by 7.5 x 15- or 15-minute maps

See CATALOG OF PUBLISHED MAPS for available maps, dates, scales, prices, and Map Order Forms

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#2 Federally Endangered Species

The following list identifies Federally listed or proposed United States endangered species by state and county. The county is considered the species' habitat in this document, as area specific locations cannot be listed due to protection concerns.

Following the Federal list of Endangered species are lists of threatened and endangered animal and plant species of wetlands and waterways. A sample of the first page for animal species and plant species by state are shown. A summery of the known habitat usage is given and accompanied by the listing of codes used. A summary of the entire database for threatened and endangered species of wetlands and waterways is located at EPA Region VII, 25 Funston Road, Kansas City, Kansas, 66115, (913) 551-5000.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

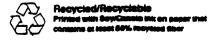
OFFICE OF PESTICIDE PROGRAMS' ENDANGERED SPECIES-BY-COUNTY LIST

DISCLAIMER

THE FOLLOWING LIST IDENTIFIES FEDERALLY LISTED OR PROPOSED U.S. SPECIES BY STATE AND COUNTY. IT WAS REVIEWED AND UPDATED (THROUGH OCTOBER 1, 1992) BY THE U.S. FISH AND WILDLIFE SERVICE.

WHILE THE LIST PROVIDES A REASONABLY ACCURATE GUIDE, IT SHOULD NOT BE CONSIDERED THE FINAL WORD IN DETERMINING SPECIES LOCATIONS. ALTHOUGH IT PRESENTS OUR BEST CURRENT INFORMATION AVAILABLE, NEW SPECIES ARE REGULARLY BEING LISTED. FOR THOSE SPECIES ALREADY LISTED, COMPILING NEW SPECIES HABITAT INFORMATION IS A CONTINUING PROCESS. SPECIES POPULATIONS ARE OFTEN DYNAMIC AND, SUBSEQUENT TO LISTING, MAY BE DISCOVERED IN NEW LOCATIONS. MOREOVER, TRUE TO THEIR ENDANGERED OR THREATENED STATUS, THEY MAY BE EXTIRPATED FROM PREVIOUSLY OCCUPIED LOCATIONS.

THE OFFICE OF PESTICIDE PROGRAMS WILL MONITOR LISTING PROPOSALS AND RULE-MAKING NOTICES IN THE FEDERAL REGISTER AND MAKE OTHER CHANGES AS NEW INFORMATION BECOMES AVAILABLE. THE LIST WILL BE REPRINTED PERIODICALLY.



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14	-0 -1 8	. POSSIBLE	TANMAL	BAT. INDIANA
! ~	12525	FOSSIBLE	FLANT	SUSH-CLOVER. PRAIRIE
12	-IHIR	k. nown	FLANT	MILKWEED. MEAD'S
	-rei8	- NOWN	PLANT	GRCHID. WESTERN PRAIRIE FFINGED
114	₁อัลที\$	POSSIBLE	MAMMAL	SAT, INDIANA
i.e	/4 #3		FLANT	
				SUSH-CLOVER, SRAIRIE
Ià	-⊎aMS	,	FLANT	SACHID. WESTERN FRAIRIE FRINSED
ī.	33 ใ ค์ถียว!-		FLANT	BUSH-CLOVER. PRAIRIE
IA	-LLAMAKEE	KNOWN	SIRD	EAGLE, INLD
ĨĤ	-LLHNAKEE	KNOWN	FLANT	Mankshood. Northern wild
ĨĤ	-LLAMAKEE	POSSIBLE	PLANT	JACHID, WESTERN PRAIRIE FRINGED
IA	-LAMAFEE	KNOWN	CLAM	FEARLY MUSSEL. AIBBINS' E/E
1.4	-FPANDOSE	KNOWN	MANNAL	BAT. INDIANA
IA	HEPANOOSE	POSSIBLE		BUSH-CLOVER, PRAIRIE
ΞÁ	APFANDOSE	KNOWN	BIRD	EAGLE. SALD
:A	FFANOOSE		F_ANT	
IA	AFFANGUSE		FLAMT	GRONID. MESTERN PRAIRIE FRINGED
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	- มีข้ ปลิดี กั	POSSIFLE	MAMMAL	PAT. INDIANA
1À	-DUBON		PLANT	BUSH-BLOVER. PRAIRIE
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. +	BEn TON	FOSSIELE	FLANT	SUSH-CLOVER, PRAIRIE
٠.	riaTON	POSSIBLE	FLANT	GRCHID. WESTERN FRAIRIE FRINGED
14	Juack Hawk	POSSIBLE	FLANT	EUSH-CLOVER. FRAIRIE
in	"LACK HAME	F0381%LE	FLANT	CRCHID. WESTERN PRAIRIE FRINGED
iń	BOONE		PLANT	SUSH-CLOVER. FRAIRIE
ΙÀ	BOONE		FLANT	GRCHIP. WESTERN PRAIRIE FRINGED
iñ	BREMER	POSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
iA	PREMER :	Y NOWN	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
17				SUSH-CLOVER. FRAIRIE
	SUCHANAN		FLART	
in 	BUCHANAN		FLANT	GROHID, WESTERN PRAIRIE FRINGED
la.	BUENA VIBTA	POSSIBLE	FLANT	SUSH-CLUVER. FRAIRIE
Ιń	BUENA VISTA	HNOWN	FLANT	URCHID. WESTERN PRAIRIE FFINGED
IA	BUTLER	i nown	FLANT	BUSH-CLOVER, FRAIRIE
iñ	BUTLER	POSSIBLE	CLANT	urchid. Western frairie fringed
íń	.≍Lh0dN	FOSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
iñ	^≥un68h	POSSIBLE	FLANT	GROHID. WESTERN PRAIRIE FRINGED
IA	I-RROLL	POSSIBLE	FLANT	BUSH-CLOVER, FRAIRIE
Ι'n	CARROLL	F OSS IBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
IA	1,433	POSSIBLE	HAMMAL	BAT. INDIANA
!A	ūn 3S	POSSIBLE	FLANT	BUSH-CLOVER, FRAIRIE
IA	ะ สอง เส อง	POSSIBLE	PLANT	GRCHID. WESTERN PRAIRIE FRINGED
IA	LEDAR	POSSIBLE	HAMMAL	SAI, INDIANA
IA	IEDAR	FOSSIBLE	FLANT	BUSH-CLGVER, FRAIRIE
IA	_EDAR _EDAR	POSSIBLE		
iñ		POSSIBLE	FLANT	ORCHID. EASTERN PRAIRIE FRINGED
	LEBAR		FLANT	ORCHID. WESTERN FRAIRIE FRINGED
iñ La	LERRO GORDO	POSSIBLE	PLANT	BUSH-CLOVER. PRAIRIE
IA	IERRO GORDO	POSSIBLE	PLANT	GROND, WESTERN PRAIRIE FRINGED
iń	HEROKEE	FOSSIBLE	FLANT	SUSH-CLOVER. FRAIRIE
: 8	IHEROKEE	KNOWN	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
ĬĤ	CHICKASAW	FOSSIBLE	PLANT	BUSH-CLOVER. FRAIRIE
H	_miCkASAW	FOSSIBLE	FLANT	JRCHID. WESTERN PRAIRIE FRINGED
IA	CLARNE	POSSIBLE	MAMMAL	SAT. INDIANA
ia.	CLARKE	KNOWN	FLANT	BUSH-CLOVER, FRAIRIE
•	LARKE	KNOWN	PLANT	MILKWEED. MEAD'S
	ILAKKE	FOSSIFLE	FLANT	ORCHID, WESTERN PRAIRIE FRINGED
ĬĤ	CLHI	FOSSIBLE	FLANT	BUSH-CLOVER, FRAIRIE
là	ILAY	KNOWN	PLANT	ORCHID. MESTERN PRAIRIE FRINGED
iń	CLACTON	POSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
IA	CLAYTON	KNOWN	BIRD	EAGLE. SALD
IA	CLAYTON	KNOWN	FLANT	
15				MONKSHOOD. HORTHERN WILD
	TI AVTON	Pagairi F	PLANT	ARCHID. WESTERN PRAIRIE ERINGED

ΙĤ				
	llárTűN	HONN	SNAIL	SNAIL. IGWA FLEISTOCENE
ïя	LINTON	FOSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
ŀА	CLINTON	KNOWN	BIRD	EAGLE, RALD
ĬÅ	CLINTON	POSSIBLE	PLANT	BRCHID. WESTERN PRAIRIE FRINGED
IA	ILINTON	KNOWN	CLAM	PEARLY MUSSEL, mIGGINS' EYE
	•			
:A	ILINTON	KNOWN	ENAIL	SHAIL. IOWA PLEISTOCENE
[t1	TRAMFORD	FOSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
	CRAWFORD	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
ΞĤ	[ALLAS	FOSSIBLE	MAMMAL	BAT. INDIANA
				• • •
IA	THLLAS	POSSIELE	FLANT	BUSH-CLOVER. FRAIRIE
ΞÀ	SA LLAS	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
ΙĤ	14715	KNOWN	MAMMAL	SAT, INDIANA
[8]	IAVIS	POSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
ΙA	IAVIS	POSSIBLE	PLANT	ORCHID. EASTERN FRAIRIE FRINGED
ΙA	CAVIS	POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
	JECATUR			
		KNOWN	MAMMAL	BAT. INDIANA
	JECATUR	FOSSIBLE		BUSH-CLOVER, FRAIRIE
ΙĤ	IECATUR	KNOWN	PLANT	MILKWEED, MEAD'S
IA	JECATUR	KNOWN	PLANT	ORCHID. EASTERN PRAIRIE FRINGED
ĬĤ	JECATUR	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
:a	JELAWARE	KNOWN	PLANT	BUSH-CLOVER, PRAIRIE
I.			PLANT	MONKSHOOD. MORTHERN WILD
	ELSWARE			
i.i.	TELAWARE	POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
Ä	IES MOINES	POSSIBLE		BAT, INDIANA
	IEE MOINES	FOSSIBLE	FLANT	BUSH-CLOVER, FRAIRIE
ΪĤ	ES HOINES	s NOWN	BIRD	EAGLE. BALD
:4		KNOWN	CLAM	MUSSEL. FAT POCKETAGOK
	TES TICINES	POSSIBLE		ORCHID. EASTERN FRAIRIE FRINGED
	IES MOINES	POSSIBLE	FLANT	ORCHID. WESTERN FRAIRIE FRINGED
IA	.E3 MOINES	rnown	CLAM	FEARLY MUSSEL. HIBBINS' EYE
IA	CICKINSON	KNOWN	PLANT	BUSH-CLOVER. PRAIRIE
12	TICKINSON	KNOWN	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
i	JUBUQUE	KNOWN	HAMMAL	BAT, INDIANA
ĪA	DABAONE	POSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
	SUBUQUE			
IA				
		KNOWN	BIRD	EAGLE. FALD
IA	I JBUQUE	KNOWN	FLANT	HONKSHOOD. NORTHERN WILD
IA IA				
	I JBUQUE	KNOWN	FLANT	HONKSHOOD. NORTHERN WILD
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IA IA IA	LUBUQUE LUBUQUE LUBUQUE LUBUQUE LUBUQUE LUBUQUE	KNOWN Possible Known Known Known	FLANT FLANT CLAN SNAIL FLANT	MONKSHOOD. MORTHERN WILD ORCHID. WESTERN PRAIRIE FRINGED PEARLY MUSSEL. HIGGINS' EYE SNAIL. IOWA PLEISTOCENE BUSH-CLOVER, FRAIRIE
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iń	BAFION	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
ĨÀ	#ARSHALL	FOSSIBLE	FLANT	SUSH-CLOVER, FRAIRIE
IA	34RSHALL			
		FOSSIBLE	FLANT	ORCHID. MESTERN PRAIRIE FRINGED
i.h	dILLS	Possible	MAMMAL	BAT. INDIANA
14	-fils	FOSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
ΙÀ	:ILLS	POSSIBLE	FLANT	ORCHID. WESTERN FRAIRIE FRINGED
ΞA	*ILLE	L NOWN	FISH	STURGEON. PALLID
IÀ	TTHELL	FOSSIBLE		SUSH-CLOVER. FRAIRIE
14	FIFEHELL			
	·	POSSIBLE		ORCHID. WESTERN FRAIRIE FRINSED
IA	dūnona	PUSSIBLE		BUSH-CLOVER. FRAIRIE
ĨĤ	TONONA	NOWN	BIRD	EM GLE. BMLD
ĨĤ	HONONA	PGSSIBLE	FLANT	ORCHID. WESTERN FRATRIE FRINGED
IÀ	dONONA	HOWN	FISH	'ETURGEON. FALLID
IA	MONROE .	KNOWN	MAMMAL	BAT. INDIANA
	HONROE	POSSIBLE		BUSH-CLOVER, FRAIRIE
••	HONROE	POSSIBLE	PLANT	DRCHID. EASTERN PRAIRIE FRINGED
	IONROE	POSSIELE	PLANT	ORCHID, WESTERN PRAIRIE FRINGED
IA	MENTGONERY	POSSIBLE	HANNAL	BAT. INDIANA
IA	HONTGOMERY	FOSSIBLE	PLANT	BUSH-CLOVER, FRAIRIE
ĬĤ	MONTGONERY	POSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
ĬĀ	HUSCATINE	FOSSIBLE	MAMMAL	BAT. INDIANA
14	HUSCATINE	POSSIBLE	FLANT	BUSH-ELDVER. FRAIRIE
IA	*USCATINE	KNOWN	BIRD	EAGLE. BALD
IA	HUSCATINE	KNOWN	3 IRD	FALCON. FERESRINE
IA	HUSCATINE	POSSIBLE	PLANT	GRCHID. EASTERN FRAIRIE FRINBED
IA	HUSCATINE	POSSIBLE	FLANT	GRCHID, WESTERN PRAIRIE FRINGED
IA	HUSCATINE	KNOWN	CLAM	FEARLY MUSSEL, HIGGINS' EYE
ΙA	O BRIEN	POSSIBLE	FLANT	BUSH-CLOVER, PRAIRIE
IA	MERIEN	POSSIBLE	FLANT	ORCHID, WESTERN PRAIRIE FRINGED
IA	GSCEOLA			·
		KNOWN	PLANT	BUSH-CLOVER, PRAIRIE
ΙĤ			PLANT	ORCHID, WESTERN PRAIRIE FRINGED
	CSCEOLA	POSSIBLE		
IA	TAGE	POSSIBLE	HAMMAL	BAT, INDIANA
IA IA				
	TAGE	POSSIBLE	HAMMAL	BAT. INDIANA
IA	FAGE FAGE	POSSIBLE POSSIBLE POSSIBLE	HAMMAL PLANT PLANT	BAT. INDIANA BUSH-CLOVER. PRAIRIE ORCHID. WESTERN PRAIRIE FRINGED
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IA IA IA	CAGE PAGE PAGE FALO ALTO PALO ALTO	POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE	HAMMAL PLANT FLANT FLANT FLANT	BAT, INDIANA BUSH-CLOVER, PRAIRIE DRCHID, HESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID, WESTERN PRAIRIE FRINGED
IA IA IA IA	CAGE PAGE PAGE FALO ALTO PALO ALTO PLYMOUTH	POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE	HAMMAL PLANT FLANT FLANT PLANT	BAT. INDIANA BUSH-CLOVER. PRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BUSH-CLOVER. FRAIRIE DRCHID. WESTERN FRAIRIE FRINGED BUSH-CLOVER. FRAIRIE
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IA I	FAGE FAGE FAGE FALO ALTO FALO ALTO PLYMOUTH PLYMOUTH FOCAHONTAS FOCOHONTAS POLK	POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE FOSSIBLE KNOWN POSSIBLE	MAMMAL PLANT PLANT PLANT PLANT PLANT PLANT FISH PLANT PLANT PLANT NAMMAL	BAT, INDIANA BUSH-CLOVER, PRAIRIE DRCHID, WESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID, WESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE ORCHID, WESTERN PRAIRIE FRINGED STURGEON, FALLID BUSH-CLOVER, FRAIRIE ORCHID, WESTERN PRAIRIE BAT, INDIANA
IA	FAGE FAGE FALO ALTO FALO ALTO FALO ALTO PLYMOUTH PLYMOUTH FOCAHONTAS FOCHONTAS POLK POLK	POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE FOSSIBLE KNOWN POSSIBLE POSSIBLE	MAMMAL PLANT PLANT PLANT PLANT PLANT PLANT FISH PLANT PLANT PLANT PLANT PLANT PLANT	BAT, INDIANA BUSH-CLOVER, PRAIRIE DRCHID, MESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID, WESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID, WESTERN PRAIRIE FRINGED STURGEON, FALLID BUSH-CLOVER, FRAIRIE DRCHID, WESTERN PRAIRIE FRINGED BAT, INDIANA BUSH-CLOVER, PRAIRIE
IA	FAGE FAGE FALO ALTO FALO ALTO FLYMOUTH FLYMOUTH FOCAHONTAS FOCHONTAS FOLK FOLK FOLK FOLK	POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE KNOWN POSSIBLE POSSIBLE KNOWN	MAMMAL PLANT PLANT PLANT PLANT PLANT PLANT FISH PLANT PLANT PLANT PLANT BIRD	BAT. INDIANA BUSH-CLOVER. PRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BUSH-CLOVER. FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED STURGEON. FALLID BUSH-CLOVER. FRAIRIE DRCHID. WESTERN PRAIRIE DRCHID. WESTERN PRAIRIE EAGLE. BALD
IA	FAGE FAGE FALO ALTO FALO ALTO FLYMOUTH FLYMOUTH FOCAHONTAS FOCHONTAS FOLK FOLK FOLK FOLK FOLK	POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE KNOWN POSSIBLE POSSIBLE KNOWN KNOWN	MAMMAL PLANT MAMMAL PLANT BIRD	BAT. INDIANA BUSH-CLOVER. PRAIRIE DRCHID. MESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED STURGEON. FALLID BUSH-CLOVER. FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BAT. INDIANA BUSH-CLOVER. PRAIRIE EAGLE. BALD FALCON. PEREGRINE
IA I	FAGE FAGE FAGE FALO ALTO FALO ALTO PLYMOUTH PLYMOUTH FOCAHONTAS FOCHONTAS FOLK FOLK FOLK FOLK FOLK FOLK FOLK FOLK	POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE FOSSIBLE KNOWN POSSIBLE KNOWN KNOWN POSSIBLE	MAMMAL PLANT PLANT PLANT PLANT PLANT PLANT PLANT PLANT PLANT BISH PLANT PLANT PLANT PLANT BIRD BIRD PLANT	BAT. INDIANA BUSH-CLOVER. PRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BUSH-CLOVER. FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED STURGEON. FALLID BUSH-CLOVER. FRAIRIE DRCHID. WESTERN PRAIRIE DRCHID. WESTERN PRAIRIE EAGLE. BALD
IA	FAGE FAGE FALO ALTO FALO ALTO FLYMOUTH FLYMOUTH FOCAHONTAS FOCHONTAS FOLK FOLK FOLK FOLK FOLK	POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE POSSIBLE KNOWN POSSIBLE POSSIBLE KNOWN KNOWN	MAMMAL PLANT MAMMAL PLANT BIRD	BAT. INDIANA BUSH-CLOVER. PRAIRIE DRCHID. MESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BUSH-CLOVER, FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED STURGEON. FALLID BUSH-CLOVER. FRAIRIE DRCHID. WESTERN PRAIRIE FRINGED BAT. INDIANA BUSH-CLOVER. PRAIRIE EAGLE. BALD FALCON. PEREGRINE

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	FOITAWATTAMIE	KNOWN		EAGLE. SALD
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ΙĤ	-DITAWATTAKIE	KNOWN	SIRD	TERN. INTERIOR (POPULATION) LEAST
ΞÀ	FOWESHIEN	POSSIBLE	1AMMAL	BAT. INDIANA
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	- WESHIE!		FLANT	ORCHID. WESTERN FRAIRIE FRINGED
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		KNOWN	HANNAL	BAT. INDIANA
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ΙĀ	30 311	POSSIBLE	HAMMAL	SAT, INDIANA
ĬĤ	30077	POSSIBLE	FLANT	BUSH-CLOYER, FRAIRIE
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IA	30017		BIRD	FALCON. FERESRINE
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iâ	E211		FLANT	ORCHID. WESTERN PRAIRIE FRINGED
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iñ	ELOUX	FOSSIELE	FLANT	SUSH-CLOVER. PRAIRIE
•4	3.1 00 4	FOSSIBLE	FLANT	GRCHID, WESTERN FRAIRIE FRINGED
. n		FOSSIBLE		STURBECH, FALLID
IA			FLANT	SUSH-CLOVER. PRAIRIE
Iń	HORY		FLANT	
IA	TANA			
IA			PLANT	FUSH-CLOVER. FRAIRIE
	TaMA	POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
IA	TAYLOR	POSSIBLE	MANNAL	BAT, INDIANA
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Ιń	UNION	POSSIBLE	HAMMAL	BAT, INDIANA
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IA	UNION	POSSIBLE	PLANT	HILKWEED. HEAD'S
IA	ENION	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
ΙA	'AN BUREN	KNOWN	MAMMAL	BAT. INDIANA
ià	AN BUREN	POSSIBLE	PLANT	
ΞA	AN BUREN	KNOWN	BIRD	EAGLE, BALD
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iA	VAN BUREN	POSSIBLE	PLANT	ORCHID. WESTERN FRAIRIE FRINGED
IÁ	MAPELLO	KNOWN	MAMMAL	SAT, INDIANA
là	WAPELLO	POSSIBLE	PLANT	BUSH-CLOVER, FRAIRIE
IA	WAPELLO	KNOWN	SIRD	EAGLE, PALD
ΙA	GAFELLO	POSSIBLE	FLANT	ORCHID. EASTERN PRAIRIE FRINGED
1.4	WAPELLO	POSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
IA	NARREN	POSSIBLE	HAMMAL	BAT. INDIANA
IA	WARREN	POSSIBLE	PLANT	BUSH-CLOVER. PRAIRIE
IA	HARREN	KNOWN	PLANT	MILKWEED, MEAD'S
ĬÂ	HARREN	FOSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
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IA	SAYNE	POSSIBLE	HAMMAL	BAT. INDIANA
Ià	HAYNE	POSSIBLE	PLANT	BUSH-CLOVER, FRAIRIE
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la 	-EBSTER	POSSIBLE	PLANT	SUSH-CLOVER, FRAIRIE
iñ	FEBSTER	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
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IA	WINNEBAGG	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
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A CHART ANDREAD AND			-0616	POSSIBLE	1AMMAL	BAT. INDIANA
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POSSIBLE	PLANT	BUSH-CLOVER. FRAIRIE
KNOWN	BIRD	EAGLE. BALD
POSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
KNOWN	CLAM	PEARLY MUSSEL. mIGGINS' EYE
KNOWN	SNAIL	SNAIL, IGWA PLEISTOCENE
FOSSIBLE	PLANT	BUSH-CLOVER. PRAIRIE
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
FOSSIBLE		BAT. INDIANA
		' . '
POSSIELE		BUSH-CLOVER. FRAIRIE
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
KNOWN	MAMMAL	BAT, INDIANA
POSSIBLE	PLANT	SUSH-CLOVER. FRAIRIE .
FOSSIBLE	PLANT	ORCHID. EASTERN PRAIRIE FRINGED
FOSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
ANONN	HAMMAL	BAT. INDIANA
FOSSIBLE	FLANT	aush-clover. PRAIRIE
<nonn< td=""><td>PLANT</td><td>MILKWEED, MEAD'S</td></nonn<>	PLANT	MILKWEED, MEAD'S
KNOWN		ORCHID. EASTERN PRAIRIE FRINGED
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
KNOWN		BUSH-CLOVER, FRAIRIE
· HOWN		MONKSHOOD. HORTHERN WILD
POSSIELE		ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE	AANMAL	BAT. IN DIAN A
FOSSIBLE	FLANT	BUSH-CLOVER. PRAIRIE
: NOWN	BIRD	EAGLE. SALD
KNOWN	CLAM	MUSSEL. FAT POCKETBOOK
POSSIBLE	PLANT	DRCHID. EASTERN PRAIRIE FRINGED
POSSIBLE	FLANT	CRCHID. WESTERN PRAIRIE FRINGED
r NOWN	CLAM	PEARLY MUSSEL, HIGGINS' EYE
	PLANT	SUSH-CLGVER. PRAIRIE
KNOWN		
KNOWN	FLANT	ORCHID. WESTERN FRAIRIE FRINGED
KNONN	HANNAL	BAT, INDIANA
POSSIBLE	PLANT	BUSH-CLOVER. FRAIRIE
KNOWN	BIRD	EAGLE. BALD
k nown	PLANT	MONKSHOOD. HORTHERN WILD
POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
LNOWN	CLAN	PEARLY MUSSEL. HIGGINS' EYE
KNOWN	SNAIL	SNAIL. IGHA PLEISTOCENE
*NOWN	PLANT	BUSH-CLOVER. FRAIRIE
! NOWN	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		BUSH-CLOVER. FRAIRIE
+ NOWN	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
		SNAIL. IDWA PLEISTDCENE
KNOWN	SNAIL	***
POSSIBLE		BUSH-CLOVER. FRAIRIE
POSSIBLE		URCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		BUSH-CLOVER. PRAIRIE
POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		BAT, INDIANA
POSSIBLE	PLANT	BUSH-CLOVER. FRAIRIE
K nown	BIRD	EAGLE. BALD
POSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
KNOWN	FISH	STURGEON. FALLID
POSSIBLE	PLANT	BUSH-CLOVER. FRAIRIE
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		BUSH-CLOVER. FRAIRIE
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		BAT. INDIANA
		BUSH-CLOVER. PRAIRIE
POSSIBLE		
KNOWN	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		BUSH-CLOVER. FRAIRIE
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE	C-I ANT	DIEU-CIOUSO COATOIS
		BUSH-CLOVER. FRAIRIE
FOSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED

	: 3	SHARISON	POSSIBLE	HANNAL	SAT. INDIANA
		HARRISON	POSSIBLE	FLANT	BUSH-CLOVER. PRAIRIE
		HARISON	KNOWN	BIRD	EAGLE. BALD
	ia	HARRISON	POSSIBLE	FLANT	GRCHID. WESTERN PRAIRIE FRINSED
	iń	HARRISON	KNOWN	FISH	STURGEDN. FALLID
	IÀ	AENRY	POSSIBLE	HANNAL	BAT. INDIANA
		rever	POSSIBLE	PLANT	BUSH-CLOVER. FRAIRIE
	i	hENRY	FOSSIBLE	FLANT	ORCHID. EASTERN PRAIRIE FRINGED
	:4	-EARY	FOSSIBLE	FLANT	GRCHID. WESTERN PRAIRIE FAINGED
		HUMARD	KNOWN	PLANT	SUSH-CLOVER, FRAIRIE
	• ^	HOWARD	KNOWN		
	. h i H			FLANT	ORCHID. WESTERN PRAIRIE FRINGED
		HUMBOLT	POSSIBLE	FLANT	BUSH-CLOVER, FRAIRIE
	i m	MBOLT	POSSIBLE	FLANT	GRCHID. WESTERN PRAIRIE FRINGED
	IA Im	139	POSSIBLE	FLANT	BUSH-CLOVER. PRAIRIE
		104	POSSIBLE	FLANT	GRCHID. WESTERN PRAIRIE FRINSED
	: -	10MA	POSSIBLE	MAMMAL	BAT. INDIANA
	: -	TOWA	POSSIBLE	FLANT	SUSH-CLOVER. FRAIRIE
	i. .	ITHA	KNONN	BIRD	EAGLE, BALD
	I ii	1.246	FOSSIBLE	FLANT	ORCHID. EASTERN PRAIRIE FRINGED
	Ä	AREL	POSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
	iA	CKSON	POSSIFLE	FLANT	BUSH-CLOVER. FRAIRIE
		-CKSGN	LNOWN	BIRD	EAGLE. SALD
	. -	-0898	ENOWN	PLANT	MONKSHOOD. NORTHERN WILD
		1-0r 30d	FOSSIELE	FLANT	ORCHID. WESTERN PRAIRIE FRINSED
	. ¬	-CASON	HOWN	CLAM	FEARLY MUSSEL. middins' E:E
		JACKSON	KNOWN	SNAIL	SNAIL, IOWA PLEISTOCENE
	: -	FORER	I.NOWN	HAMMAL	BAT. INDIANA
		JHSFEF	FOSSIBLE	FLANT	BUSH-CLOVER. PRAIRIE
	. H	TASPER	POSSIBLE	FLANT	ORCHID. WESTERN FRAIRIE FRINGED
	IA	JEFFERSON	POSSIBLE	HAMMAL	BAT. INDIANA
	là · ·	CEFFERSON	KNOWN	PLANT	BUSH-CLOVER, FRAIRIE
	:÷	JEFFERSON	K now n	BIRD	EAGLE, SALD
	Ä	JEFFERSON	POSSIBLE	FLANT	GRCHID. EASTERN FRAIRIE FRINGED
	in 	JEFFERSON	POSSIBLE	FLANT	ORCHID. WESTERN FRAIRIE FRINGED
	ĬĤ	JUHNSON	POSSIBLE	HAMMAL	BAT. INDIANA
	ia ''	JOHNSON	POSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
	l ii	JEHNSON	KNOWN	BIRD	EAGLE. BALD
] }	JUHNSON	KNOWN	CLAN	MUSSEL. FAT FOCKETBOOK
	i A	TIANSON	KNOWN	PLANT	ORCHID. EASTERN PRAIRIE FRINGED
		CHASSA	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
	i i	CNES	POSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
	in .	CONES	POSSIBLE	SIRD	EAGLE. SALD
•	iń	IDNES	POSSIBLE	FLANT.	ORCHID. WESTERN PRAIRIE FRINGED
	iń iń	+ EDKUk - FOYSIY	POSSIBLE	HANNAL CLANT	BAT. INDIANA
		: EOKUK . EOKUV	POSSIBLE	PLANT C: ANT	BUSH-CLOVER. PRAIRIE
		→ EGKUK → EGKUK	POSSIBLE POSSIBLE	FLANT FLANT	ORCHID. EASTERN PRAIRIE FRINGED ORCHID. WESTERN FRAIRIE FRINGED
		FOSSUTH	KNOWN	FLANT	
	-	+ 0550TH	KNOWN	PLANT	BUSH-CLOVER. PRAIRIE ORCHID. WESTERN PRAIRIE FRINGED
		LEE	FOSSIBLE	HAMMAL	BAT. INDIANA
			POSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
		LEE	KNOWN	BIRD	EAGLE. SALD
		LEE	POSSIBLE	FLANT	ORCHID. EASTERN PRAIRIE FRINGED
		LEE		FLANT	ORCHID. WESTERN PRAIRIE FRINGED
		LEE	POSSIBLE	CLAN	PEARLY MUSSEL. HIGGINS' ETE
	là	LINN	KNOWN	BIRD	EAGLE. SALD
			KNOWN	SIRD	FALCON. PEREGRINE
		LINN		~	
	ĪĀ	LINN		PI ANT	ARCHIG. MESTERN PRAIRIE FRINCES
	IA IA	LINN	POSSIBLE	PLANT Manmai	ORCHID. WESTERN PRAIRIE FRINGED RAT. INDIANA
	IA IA IA	LINN LOUISA	FOSSIBLE Known	HAMMAL	BAT, INDIANA
	IA IA IA	LIXN LOUISA EGJISA	POSSIBLE Known Possible	HAMMAL PLANT	BAT. INDIANA BUSH-CLOVER. PRAIRIE
	IA IA IA IA	LIXN LOUISA LOUISA LOUISA	POSSIBLE KNOWN POSSIBLE KNOWN	MAMMAL PLANT BIRD	BAT. INDIANA BUSH-CLOVER. PRAIRIE EAGLE. BALD
	IA IA IA IA	LIXN LOUISA LOUISA LOUISA ' LOUISA	FOSSIBLE KNOWN POSSIBLE KNOWN POSSIBLE	HAMMAL FLANT BIRD FLANT	BAT. INDIANA BUSH-CLOVER. PRAIRIE EAGLE. BALD ORCHID. EASTERN PRAIRIE FRINGED
	IA IA IA IA	LIXN LOUISA LOUISA LOUISA LOUISA LOUISA	FOSSIBLE KNOWN POSSIBLE KNOWN POSSIBLE POSSIBLE	MAMMAL FLANT BIRD FLANT FLANT	BAT. INDIANA BUSH-CLOVER. PRAIRIE EAGLE. BALD ORCHID. EASTERN PRAIRIE FRINGED ORCHID. NESTERN PRAIRIE FRINGED
	IA IA IA IA IA	LIXN LOUISA LOUISA LOUISA ' LOUISA	FOSSIBLE KNOWN POSSIBLE KNOWN POSSIBLE	HAMMAL FLANT BIRD FLANT	BAT. INDIANA BUSH-CLOVER. PRAIRIE EAGLE. BALD ORCHID. EASTERN PRAIRIE FRINGED

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POSSIBLE	FLANT	AILKWEED. HEAD'S
POSSIBLE		ORCHID. EASTERN PRAIRIE FRINGED
POSSIBLE		GRCHID. WESTERN PRAIRIE FRINGED
	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
FOSSTELE	FISH	STURGEON. FALLID
KNOWN	dannal	SAT. INDIANA
	FLANT	BUSH-CLGVER. PRAIRIE
POSSIBLE	FLANT	HILKWEED. HEAD'S
FOSSIBLE	FLANT	GRONID. WESTERN PRAIRIE FRINGED
POSSIBLE	MANHAL	chi. NDIANA
POSSIELE	FLANT	PUSH-CLOVER. FRAIRIE
ENGUN	BIRD	EAGLE, SALD
FOSSIBLE		GRCHID. WESTERN FRAIRIE FRINSED
KNOWN	MAMMAL	EAT. INDIANA
FOSSIBLE		PUSH-CLOVER. PRAIRIE
KNOWN	EIRD	EAGLE. THE
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
FOSSIBLE	FLANT	SUSH-CLOVER, FRAIRIE
FOSSIBLE	FLANT	GRCHID. MESTERN PRAIRIE FRINGED
POSSIBLE		BAT. INDIANA
FOSSIBLE	FLANT	SUSH-CLOVER, FRAIRIE
POSSIBLE	FLANT	GRCHID. WESTERN FRAIRIE FRINGED
FUSSIBLE	FISH	STURGEON. PALLID
FOSSIBLE	FLANT	BUSH-CLEVER, PRAIRIE
POSSIBLE	FLANT	DRCHID. WESTERN FRAIRIE FRINGED
POSSIBLE		FUSH-CLOVER. FRAIRIE
· NOWN	SIRD	EMBLE. CHLD
POSSIBLE		GROWID. WESTERN FRAIRIE FRINGED
HOSSIBLE	FISH	STURGEON. FALLID
KNOWN	MAMMAL	BAT, INDIANA
POSSIBLE	FLANT	BUSH-CLOVER, FRAIRIE
POSSIBLE	PLANT.	ORCHID. EASTERN FRAIRIE FRINGED
FOSSIELE	PLANT	ORCHID. WESTERN PRAIRIE FRINSED
POSSIBLE	HAMMAL	BAT. INDIANA
FOSSIBLE	FLANT	BUSH-CLOVER, FRAIRIE
POSSIBLE	FLANT	ORCHIO. WESTERN FRAIRIE FRINGED
POSSIBLE	MAMMAL	ant. : HDIANA
POSSIBLE	FLANT	BUSH-CLOVER, PRAIRIE
KNOWN		EXOLE. BALD
KNOWN		FALCON. FERESRINE
FOSSIBLE		GRCHID. EASTERN FRAIRIE FRINGED
POSSIBLE		GROWID. WESTERN FRAIRIE FRINGED
KNOWN	CLAM	FEARLY MUSSEL, HIGGING' EYE
POSSIBLE	FLANT	BUSH-CLOVER. PRAIRIE
FOSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
KNOWN	PLANT	BUSH-CLOVER, PRAIRIE
POSSIBLE		GRCHID. WESTERN PRAIRIE FRINGED
		BAT. IN DIAN A
POSSIBLE	PLANT	BUSH-CLOVER. PRAIRIE
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		BUSH-CLGVER. FRAIRIE
POSSIBLE		URCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		BUSH-CLOVER, FRAIRIE
POSSIBLE		ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE		STURGEON. FALLID
FOSSIBLE	PLANT	BUSH-CLOVER, FRAIRIE
KNOWN	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE	MAMMAL	BAT. INDIANA
POSSIBLE		BUSH-CLOVER, PRAIRIE
KNOWN	BIRD	EAGLE. BALD
KNOWN	BIRD	FALCON. FEREGRINE
POSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
POSSIBLE	BIRD	PLOYER. FIPING
	NAMMAL	BAT. INDIANA

		FRITAGETTABLE	FOSSIBLE	FLANT	URCHID. WESTERN PRAIRIE PRIABED
		- ITTAWATTANIE	KNOWN	SIRD	PLOVER. FIFING
		FOTTAWATTAMIE	- NOWN	FISH	STURGEON. FALLID
		FITAWATTAMIE	KNOWN	SIRD	TERN. INTERIOR (POPULATION) LEAST
*		F BRESHIE!	POSSIBLE		BAT. INDIANA
		FUNESHIER	POSSIBLE		BUSH-CLOVER. FRAIRIE
		- MESHIEL	FOSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
	in	- 18060LD	NOWN	HAMMAL	EAT. INDIANA
	i÷	F 1 1868L9	FOSSIBLE	FLANT	SUSH-CLOVER. FRAIRIE
	:-	- 1455019	POSSIBLE	FLANT	MILKWEED. HEAD S
	i n	F [1660LD	FOSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
	İÁ	1-1	FOSSIBLE	FLANT	SUSH-CLOVER. FRAIRIE
	ГÀ	záč	POSSIBLE	FLANT	URCHID. WESTERN PRAIRIE FRINSED
		SUJIT	POSSIBLE	HANNAL	BAT. INDIANA
		ECUTT	FOSSIELE	FLANT	BUSH-CLOVER, FRAIRIE
		EUT	LNOWN	BIRD	EAGLE. SALD
		50017	LNOWN	BIRD	FALCON. FERESRINE
	.,	2277	POSSIBLE		ORCHID. EASTERN FRAIRIE FRINGED
	in	HIII	POSSIELE	FLANT	GRCHID. MESTERN FRAIRIE FRINGED
	i i	ELITT	ANOWN	CLAM	PEARLY MUSSEL. HISGINS EYE
		2-EL5:	POSSIBLE		BUSH-CLIVER. FRAIRIE
		ELB:	FOSSIBLE		GACHID. WESTERN PRAIRIE FRINGED
		-1501		FLART	SUSH-CLOVER. FRAIRIE
		113Jk		FLANT	GRONIO, WESTERN FRAIRIE FRINGED
	. m	ti204 ttte.	70 58 1312	FIEH	STURGEON, FALLID SUSH-CLOVER, FRAIRIE
	ia ia	ETORI LIORY	indun Fossiele	FLANT	ORCHID. WESTERN FRAIRIE FRINGED
	. # [4	_ TUNT		PLANT	BUSH-CLOVER. FRAIRIE
	. 4	ace -iia		PLANT	ORCHID. WESTERN PRAIRIE FRINGED
	in	TAYLOR		MANMAL	SAT. INDIANA
•		TAILOR	FOSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
-	in	•	FOSSIBLE	FLANT	GRCHID. WESTERN PRAIRIE FRINGED
		THION	FOSSIBLE	TAMMAL	BAT. INDIANA
	IA	CHION	FOSSIBLE	PLANT	BUSH-CLOVER. FRAIRIE
	ià	CHICH	POSSIBLE	FLANT	HILKWEED, HEAD'S
	IA	LYION	FOSSIELE	CLANT	ORCHID. WESTERN PRAIRIE FRINGED
	IA	-H BUREN	< NOWN	HAMMAL	PAT. INDIANA
	ià	AN BUREN	FOSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
	ΞÀ	an Buren	HONN	BIRD	EAGLE. BALD
	iń	AN BUREN	FOSSIBLE	FLANT	GROHIE. EASTERN FRAIRIE FRINGED
	ìÀ	HN BUREN	FOSSIBLE	PLANT	GROHID. WESTERN FRAIRIE FRINGED
	iń	Hapellū	:.NOWN	MAMMAL	BAT. INDIANA
	Ī n	mapello	POSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
	İĤ	-HPELLÜ	► NOMN	SIRD	EAGLE. FALD
	IA	HAFELLÜ	FOSSIBLE	FLANT	ORCHID. EASTERN FRAIRIE FRINGED
	là !A	WAPELLO WARREN	POSSIBLE POSSIBLE	PLANT Manmal	ORCHID. WESTERN FRAIRIE FRINGED BAT. INDIANA
	in	HARREN	POSSIBLE	PLANT	BUSH-CLOVER. FRAIRIE
-	. IA	ARREN	KNOWN	PLANT	MILKNEED. HEAD'S
	īÀ	FARREN	FOSSIBLE	PLANT	ORCHID. WESTERN FRAIRIE FRINGED
	in	-ASHINGTON	KNOWN	HANNAL	BAT, INDIANA
		LASHINGTON	FOSSIBLE	FLANT	BUSH-CLOVER. PRAIRIE
	i i	SHINGTON	POSSIBLE	PLANT	ORCHID. EASTERN PRAIRIE FRINGED
	I ii	- A SHINGTON	POSSIBLE	FLANT	JRCHID. WESTERN FRAIRIE FRINGED
	ī.	an (NE	FOSSIBLE	MANNAL	BAT. INDIANA
	Ţ.	-ATHE	FOSSIBLE	FLANT	BUSH-CLOVER. FRAIRIE
	IA	JAYNE	POSSIBLE	PLANT	MILKWEED. HEAD'S
	Ä	on (NE	POSSIBLE	PLANT	ORCHID. EASTERN PRAIRIE FRINGED
•	IÀ	and the	POSSIBLE	FLANT	GREHID. WESTERN PRAIRIE FRINGED
	.4	FERSTER	FOSSIBLE	FLANT	BUSH-CLOVER, PRAIRIE
	iä	-EBSTER	FOSSIBLE	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
	Ä	NINNEBAGO	FOSSIBLE	FLANT	BUSH-CLOVER. PRAIRIE
	IA	WINNEBAGG	POSSIBLE	FLANT	ORCHID. WESTERN PRAIRIE FRINGED
	Iá -	- INNESHIEI.	KNOWN	FLANT	BUSH-CLOVER. FRAIRIE

: Nown	SNAIL	SHAIL. ISHA PLEISTOCENE
FOSSIZLE	FLANT	BUSH-CLOVER. PRAIRIE
LNOWN	EIRD	EAGLE. BALD
Possible	FLANT	GRCHID. WESTERN PRAIRIE FRINGED
:.NOWN	SIRD	FLOVER. PIPING
NOWN	FISH	ETURGEON. PALLID
1-NOWN	EIRD	TERN. INTERIOR (FOPULATION) LEAST
FOSSIELE	FLANT	BUSH-CLOVER. PRAIRIE
FOSSIELE	FLANT	JRCHID. WESTERN FRAIRIE FRINGED
FOSSIBLE	FLAMT	FUSH-CLOVER. FRAIRIE
FOSSIBLE	LANT	ORCHID. WESTERN PRAIRIE FRINGES

57A	TE+" '-888NTY+	'-OCCURRENCE+"	'-6ROUF+"	'=TRIM(COMMONNAME)
ā	FLLEN	LNOWN	BIRD	EAGLE. SALD
٠٤	HULEN	FOSSIBLE	EIRD	FALCON. FEREDRINE
-	HELEN		FISH	MADTOM. NEOSHO
	HLLE!!		FLANT	
٠ŝ	{DERSO!;		EIRD	EHBLE. EALD
. 9	-40283011		EIRD	FALCON, FEREBRINE
3	-MBEFSCH		FLANT	
	-ABERSON ·		FLANT	GRCHID. WESTERN FRAIRIE FRINGED
	-70H150N	HOWN	SIRD	EAGLE. EALD
٠٤	- TCHISCN	COSSIBLE		
, 3	-TCHISEN			FALCON. FEREBRINE
:			FLANT	JRCHID. WESTERN FRAIRIE FRINGED
	-TCHISCH	NOWN	F138	STURGEON. FALLID
3 3	CARBER COST	ANDIN	EIRD	CRANE. WHOOPING'
	'HABER	NOWN	EIRD	EAGLE. EALD
3	PHROEF	FOSSIBLE	BIRD	FALCON. FERESRINE
• =	[#FT04		BIRD	TRANE. #HOOPING
š	ā-ARTDH		BIRD	EABLE, TALD
3	. = 7 7 7 1 1	POSSIBLE	EIRD	FALCON. FEREBRINE
š	EARTON	: NOWN	SIRD	FLOVER. FIFING
Ē	EARTON	HOWN	SIRD	TERN. DATERIOR (FOPULATION) LEAST
£	TURBBN	F09815LE	-ammal	emī, Bemi
÷	TOURESH	HOWA	SIRD	CHOLE. EMLD
3	13CRBON	≏0 SS IBLE		FALCON. FEREBRINE
Ē	ICLREDN	HOWN		MILKWEED. MEAD S
3	iiwon:	HOWN	SIRD	EAGLE, 1910
š	BROWN	FOSSIELE	SIRD	FALCON. FERESRINE
1.5	BUTLER	POSSIBLE	BIRD	CRANE, WHOOPING
,	EUTLER	ANOWN	EIRD	EAGLE, BALD
	SUTLER	FUSSIBLE	SIRD	FALCON. FEREGRINE
IS	CriASE	KNOWN	SIRD	CRANE. WHOOPING
, 3	CHASE	KNOWN	aird	EAGLE, EALD
; 3	0≒ 45 €	FOSSIBLE	SIRD	FALCON. FEREBRINE
1.5	CHASE	KNOWN	FISH	MADTON. NEOSHO
\ S	CHAUTAUGGA	ANDWN	BIRD	EAGLE. EALD
- 5	CHAUTHUGUA	FOSSIELE	DIRD	FALCON. FEREBRINE
· S	CHERO! EE	FOSSIBLE	AMMAL	BAT. BRAY
3	INEROLEE	i.NGWN		EMGLE. EALD
. 3	CHEROI EE	POSSIBLE		FALCON. PEREGRINE
. 3	CHEROKEE	ANOWN	FISH	MADTON. NEOSHO
٠۶	CHEYENNE	POSSIBLE	SIRD	SRANE. MHOOPING
∶ ≲	CHEYENNE	KNBWN	SIRD	EAGLE. SHLD
٠, 5	CHEYENME	FOSSIBLE	BIRD	FALCON. FEREBRINE
ĸ.S	CHEYENNE	FOSSIBLE	TAMMAL	FERRET. SLACK-FOOTED
1.3	CLARK	NOWN	EIRD	CRANE. WHOOFINS
; 5	ILAR#	+ NOWN	BIRD	EAGLE. EALD
- S	Sunfik	FOSSIBLE	SIRO	FALCON. FEREGRINE
: 3	CLARK	POSSIBLE	LAMMAL	FERRET. FLACK-FOOTED
١ 3	CLARK	KNOWN	BIRD	PLOVER, FIPING
3.5	CLARK	KNOWN	GIRD	TERN. INTERIOR (FORULATION) LEAST
3	CLAY	FOSSIELE		CRANE. WHOOPING
x.S	CLAT	KNOMN	BIRD	EAGLE. BALD
FS	CLAY	POSSIBLE	EIRD	FALCON. PEREGRINE
.3	CLOUD	KNOWN	SIRD	CRANE, WHOOPING
-	CLOUD	KNOWN	BIRD	EABLE, SALD
, s	CLOUD	POSSIBLE		FALCON, FEREGRINE
٠S	COFFEY	KNOWN	BIRD	CRANE. SHOOPING
: 3	COFFEY	ANOWN ANOWN	aird aird	EAGLE. SALD
. S	COFFEY	POSSIBLE	SIRD	FALCON. FEREGRINE
? S	COFFEY	KNONN	FISH	MADTON. NEOSHO
۱S	COFFEY	KNOWN	PLANT	MILKWEED. HEAD'S
13	COFFEY	POSSIBLE	PI ANT	ARPHIR WEGTERN SPAIRIE EDINGER

S COMMONE - NOWN SIRD FLOVER, FIFTING S CONTEST - NOWN SIRD FERN, INTERIOR (FOPU) S COULEY - NOWN SIRD FERN, INTERIOR (FOPU) S COULEY - POSSIBLE SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRINE S CONTEST - NOWN SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRINE FOR S CONTEST - NOWN SIRD FALCON, FEREGRINE FALC	FOSSIBLE FIRD FALCON, FEREBRINE POSSIBLE MANMAL FERRET, BLACK-FOOTED ANOMN BIRD FERN, INTERIOR (POPULATION) LEAST NOWN BIRD CRAME, WHOOPING FOOMN BIRD FALCON, FEREBRINE POSSIBLE BIRD FALCON, FEREBRINE POSSIBLE BIRD FALCON, FEREBRINE FOSSIBLE BIRD FALCON, FEREBRINE FOSSIBLE BIRD FALCON, FEREBRINE FOOSSIBLE BIRD FALCON, FEREBRINE
SIMANCHE SOSSIBLE MANMAL FERRET, BLACK-FOOTED SIMANCHE -NOWN SIRD FERN, INTERIOR FORUM SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET CARNED POWN SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNED POWN SIRD SIRD CAR	POSSIBLE MAMMAL FERRET, SLACK-FOOTED NOWN SIRD FLOVER, FIPING NOWN SIRD FERN, INTERIOR (FOPULATION) LEAST NOWN SIRD CRAME, WHOOPING POSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FALCON, FEREGRINE ROSSIBLE SIRD FALCON, FEREGRINE ROSSIBLE SIRD FALCON, FEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN FLANT MILKWEED, MEAD'S POSSIBLE FLANT URCHID, WESTERN FRAIRIE FRINGED TOOMN SIRD CRAME, WHOOPING ROWN SIRD FALCON, FEREGRINE ROSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FALCON, PEREGRINE ROWN SIRD CRAME, WHOOPING ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN FISH STURGEON, FALLID ROSSIBLE SIRD FALCON, PEREGRINE ROWN FISH STURGEON, FALLID ROSSIBLE SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN FISH STURGEON, FALLID ROSSIBLE SIRD FALCON, PEREGRINE ROWN PLANT MILKWEED, MEAD'S ROWN PLAN
SIMANCHE SOSSIBLE MANMAL FERRET, BLACK-FOOTED SIMANCHE -NOWN SIRD FERN, INTERIOR FORUM SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET POWN SIRD CARNE, WHOOPING SICOMET CARNED POWN SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNE, WHOOPING SIRD CARNED POWN SIRD SIRD CAR	POSSIBLE MAMMAL FERRET, SLACK-FOOTED NOWN SIRD FLOVER, FIPING NOWN SIRD FERN, INTERIOR (FOPULATION) LEAST NOWN SIRD CRAME, WHOOPING POSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FALCON, FEREGRINE ROSSIBLE SIRD FALCON, FEREGRINE ROSSIBLE SIRD FALCON, FEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN FLANT MILKWEED, MEAD'S POSSIBLE FLANT URCHID, WESTERN FRAIRIE FRINGED TOOMN SIRD CRAME, WHOOPING ROWN SIRD FALCON, FEREGRINE ROSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FALCON, PEREGRINE ROWN SIRD CRAME, WHOOPING ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN FISH STURGEON, FALLID ROSSIBLE SIRD FALCON, PEREGRINE ROWN FISH STURGEON, FALLID ROSSIBLE SIRD FALCON, PEREGRINE ROWN SIRD FALCON, PEREGRINE ROWN FISH STURGEON, FALLID ROSSIBLE SIRD FALCON, PEREGRINE ROWN PLANT MILKWEED, MEAD'S ROWN PLAN
S IMANCHE	NOWN SIRD FLOVER, FIPING NOWN SIRD TERN, INTERIOR (FOPULATION) LEAST NOWN SIRD CRAME, SHOOPING FNOWN SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRINE FOSSIBLE SIRD TERN, INTERIOR (FOPULATION) LEAST NOWN SIRD SAGLE, FALD FOSSIBLE SIRD TERN, INTERIOR (FOPULATION) LEAST NOWN SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN SIRD CRAME, SHOOPING RHOWN SIRD CRAME, SHOOPING RHOWN SIRD CRAME, SHOOPING HOWN SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRINE HOWN SIRD FALCON, FEREGRINE HOWN SIRD FALCON, FEREGRINE HOWN SIRD FALCON, FEREGRINE HOWN SIRD FALCON, FEREGRINE HOWN FISH STUDGEON, FALLID FOSSIBLE SIRD FALCON, FEREGRINE HOWN SIRD FALCON, FEREGRINE HOWN FISH STUGGEON, FALLID FOSSIBLE SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN FISH STUGGEON, FALLID FOSSIBLE SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN FISH STUGGEON, FALLID FOSSIBLE SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN SIRD FALCON, FEREGRINE NOWN SIRD CRAME, WHOOPING NOWN SIRD FALCON, FEREGRINE FOSSIBLE SIRD FALCON, FEREGRIN
SICHARCAE ANOMN SIRD FERN, INTERIOR (FOPU) SICURLEY HOMN SIRD CAME, MIGOPIRE COMLEY POSSIBLE SIRD FALCON, FEREBRINE SICURLEY FOSSIBLE SIRD FALCON, FEREBRINE SICURATION MONN SIRD FALCON, FEREBRINE ANOMN SIRD FALCON, FEREBRINE SICHARORD MONN SIRD FALCON, FEREBRINE SICHARORD FOSSIBLE SIRD FALCON, FEREBRINE SIRNEY FOSSIBLE SIRD FALCON, FEREBRINE SIRNEY FOSSIBLE SIRD FALCO	NOWN SIRD TERN. INTERIOR (POPULATION) LEAST NOWN SIRD CRAME, WHOOPING PMOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, FEREGRINE POSSIBLE SIRD FLOVER, PIPING POSSIBLE SIRD FARD. INTERIOR (POPULATION) LEAST KNOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PEREGRINE KNOWN SIRD EAGLE, MEAD'S POSSIBLE FLANT URCHID, WESTERN FRAIRIE FRINGED TONNY SIRD CRAME, MHOOPING KNOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PEREGRINE POSSIBLE SIRD FALCON, PEREGRINE POSSIBLE SIRD FALCON, PEREGRINE POSSIBLE SIRD FALCON, PEREGRINE POSSIBLE SIRD CRAME, MHOOPING FORM SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PEREGRINE POSSIBLE SIRD FALCON, PEREGRINE FORM SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PEREGRINE FORM SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PEREGRINE FORM SIRD EAGLE, BALD FOSSIBLE SIRD FALCON, PEREGRINE FORM FALC
S COMLEY - NOWN SIRD CRAME, WHOOPING SIGNED SALE SALE COMLEY - POSSIBLE SIRD FALCON, FEREBRINE SIGNED SIGNED SIGNED FALCON, FEREBRINE SIGNED SIGNED SIGNED FALCON, FEREBRINE SIGNED FALCON, FEREBRINE SIGNED SIGNED FALCON, FEREBRINE SIGNED SIG	NOWN SIRD CRAME, WHOOPING PHOWN SIRD EAGLE, SALD POSSIBLE SIRD FALOUR, PERFERINE POSSIBLE SIRD FLOVER, PIPING POSSIBLE SIRD FLOVER, PIPING POSSIBLE SIRD FALOUN, PERFERINE NOWN SIRD EAGLE, SALD POSSIBLE SIRD FALOUN, PERFERINE NOWN SIRD CRAME, WHOOPING RHOWN SIRD CRAME, WHOOPING RHOWN SIRD CRAME, WHOOPING RHOWN SIRD CRAME, WHOOPING POSSIBLE PIRD FALCON, PERFERINE POSSIBLE SIRD FALCON, PERFERINE POSSIBLE SIRD FALCON, PERFERINE POSSIBLE SIRD FALCON, PERFERINE POSSIBLE SIRD FALCON, PERFERINE NOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PERFERINE NOWN SIRD EAGLE, FALD POSSIBLE SIRD FALCON, PERFERINE NOWN PLANT WILKWEED, MEAD'S KNOWN PLANT WILKWEED, MEAD'S KNOWN PLANT WILKWEED, MEAD'S KNOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PERFERINE NOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PERFERINE NOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PERFERINE NOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PERFERINE PERFERINCE PERFERINCE
CONLEY POSSIBLE SIRD FALCON, FEREBRINE CONLEY POSSIBLE SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATION FOR SIRD FALCON, FEREBRINE SIGNATUR WOMEN SIRD CRAME, AROUTING SIGNATUR ROOMN SIRD FALCON, FEREBRINE SIGNATUR POSSIBLE SIRD FALCON, FEREBRINE SIGNATUR POSSIBLE SIRD FALCON, FEREBRINE SIGNATUR POSSIBLE SIRD FALCON, FEREBRINE SIGNATUR POSSIBLE SIRD FALCON, FEREBRINE SIGNATUR POSSIBLE SIRD FALCON, FEREBRINE SIGNATURED FAL	PNOWN SIRD EAGLE. SALD POSSIBLE SIRD FALCON. FEREGRINE FOSSIBLE SIRD FLOVER. PIPING FOSSIBLE SIRD TERN. INTERIOR (FOPULATION) LEAST ANOWN SIRD EAGLE. SALD POSSIBLE SIRD FALCON. FEREGRINE ANOWN SIRD CRAME. AHOOPING RHOWN SIRD CRAME. AHOOPING RHOWN SIRD CRAME. HOOPING RHOWN SIRD CRAME. HOOPING RHOWN SIRD CRAME. HOOPING RHOWN SIRD CRAME. HOOPING HNOWN SIRD EAGLE. SALD POSSIBLE SIRD FALCON. FEREGRINE HNOWN SIRD EAGLE. FALD FOSSIBLE SIRD FALCON. FEREGRINE HNOWN SIRD EAGLE. HOOPING HNOWN SIRD EAGLE. HOOPING HNOWN SIRD CRAME. HOOPING HOOSIBLE SIRD FALCON. FEREGRINE HOOSIBLE SIRD FALCON. FEREGRINE HOOSIBLE SIRD FALCON. FEREGRINE HOOMN SIRD CRAME. HOOPING
COMLEY POSSIBLE SIRD FALOON, FEREGRINE SIGNALE: POSSIBLE SIRD FLOVER, PIPTING SIGNAFORD KNOWN SIRD SERV. INTERIOR FOPUL SIGNAFORD KNOWN SIRD SERV. INTERIOR FOPUL SIGNAFORD KNOWN SIRD SERV. INTERIOR FOPUL SIGNAFORD KNOWN SIRD SERV. SERVES SIGNAFORD KNOWN SIRD FALON, FEREGRINE SIGNAFORD KNOWN SIRD FALON, FEREGRINE SIGNAFORD ROSSIBLE SIRD FALON, FEREGRINE SIGNAFORD ROSSIBLE SIRD FALON, FEREGRINE SIGNAFORD ROSSIBLE SIRD FALON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALON, FEREGRINE SIGNAFOR KNOWN SIRD EAGLE, SALD SIGNAFOR KNOWN FLANT MICKWEED, HEAD'S KNOWN FIRM FANT MICKWEED, HEAD'S KNOWN FIRM FANT MICKWEED, HEAD'S KNOWN FIRM FALON, FEREGRINE SIGNAFOR KNOWN SIRD EAGLE, SALD SIGNAFOR KNOWN SIRD EAGLE, SALD SIGNAFOR KNOWN SIRD EAGLE, SALD SIGNAFOR KNOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR POSSIBLE SIRD FALON, FEREGRINE SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR POSSIBLE SIRD FALON, FEREGRINE SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD FREEGRINE SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD SIGNAFOR HOWN SIRD EAGLE, SALD FREEGRINE SIGNAFOR HOWN SIRD EAGLE, SALD FREEGRINE SIGNAFOR HOWN SIRD EAGLE, SALD	POSSIBLE SIRD FALCON, FEREBRINE POSSIBLE SIRD FLOVER, PIPING POSSIBLE SIRD FERN. INTERIOR (FOPULATION) LEAST KNOWN SIRD SAGLE. SALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD FALCON, PEREBRINE NOWN SIRD CRAME. HADOFING RNOWN SIRD CRAME. HADOFING RNOWN SIRD CRAME. HADOFING RNOWN SIRD CRAME. HADOFING POSSIBLE SIRD FALCON, PEREBRINE POSSIBLE SIRD FALCON, PEREBRINE POSSIBLE SIRD CRAME. HADOFING HOWN SIRD EAGLE. SALD POSSIBLE SIRD CRAME. HADOFING HOWN SIRD EAGLE. SALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD EAGLE. BALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD EAGLE. BALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD EAGLE. BALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD CRAME. HOOPING KNOWN SIRD EAGLE. BALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD CRAME. HOOPING KNOWN SIRD CRAME. HOOPING FOSSIBLE SIRD FALCON, PEREBRINE POSSIBLE SIRD FALCON, PEREBRINE TOWN SIRD CRAME. HOOPING TOWN SIRD CRAME. HOOPING TOWN SIRD CRAME. HOOPING TOWN SIRD CRAME. HOOPING TOWN SIRD CRAME. HOOPING
COMLEY POSSIBLE SIRD FALCON, FEREGRINE JOSTEL: POSSIBLE SIRD FLOVER, PIPTING SIGNAFORD KNOWN AMMAL FAT, GRAH SIGNAFORD KNOWN SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE FANT ORCHID, MESTERN FRAIL SIGNAFORD POSSIBLE FANT ORCHID, MESTERN FRAIL SIGNAFORD POSSIBLE FANT ORCHID, MESTERN FRAIL SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE FOR SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFORD POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR ROWN SIRD FAREDON, FALLID SIGNAFOR ROWN SIRD FAREDON, FALLID SIGNAFOR ROWN SIRD FAREDON, FALLID SIGNAFOR ROWN SIRD FAREDON, FALLID SIGNAFOR ROWN SIRD FAREDON, FALLID SIGNAFOR ROWN SIRD FAREDON, FALLID SIGNAFOR ROWN SIRD FAREDON, FALLID SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR POSSIBLE SIRD FALCON, FEREGRINE SIGNAFOR	POSSIBLE SIRD FALCON, FEREBRINE POSSIBLE SIRD FLOVER, PIPING POSSIBLE SIRD FERN. INTERIOR (FOPULATION) LEAST KNOWN SIRD SAGLE. SALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD FALCON, PEREBRINE NOWN SIRD CRAME. HADOFING RNOWN SIRD CRAME. HADOFING RNOWN SIRD CRAME. HADOFING RNOWN SIRD CRAME. HADOFING POSSIBLE SIRD FALCON, PEREBRINE POSSIBLE SIRD FALCON, PEREBRINE POSSIBLE SIRD CRAME. HADOFING HOWN SIRD EAGLE. SALD POSSIBLE SIRD CRAME. HADOFING HOWN SIRD EAGLE. SALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD EAGLE. BALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD EAGLE. BALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD EAGLE. BALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD CRAME. HOOPING KNOWN SIRD EAGLE. BALD POSSIBLE SIRD FALCON, PEREBRINE NOWN SIRD CRAME. HOOPING KNOWN SIRD CRAME. HOOPING FOSSIBLE SIRD FALCON, PEREBRINE POSSIBLE SIRD FALCON, PEREBRINE TOWN SIRD CRAME. HOOPING TOWN SIRD CRAME. HOOPING TOWN SIRD CRAME. HOOPING TOWN SIRD CRAME. HOOPING TOWN SIRD CRAME. HOOPING
SCHEER POSSIBLE SIRD TERM. INTERIOR (FOPULES I LAWFORD KNOWN SIRD SALE, SALD PRESENTE SIRD FALCON, PERESTINE MOWN SIRD FALCON, PERESTINE MOWN SIRD FALCON, PERESTINE MOWN SIRD CRAWFORD KNOWN SIRD CRAWFORD POSSIBLE FLANT URCHID, WESTERN FRAIL SECUTOR CHOMN SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE MOWN SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD	HOSSIBLE BIRD TERN. INTERIOR (FOPULATION) LEAST KNOWN HAMMAL BAT. GRAY FNOWN BIRD BAGE. BALD POSSIBLE BIRD FALCON. PERESRINE HANDWAY BIRD CRAME. WHOOFING RHOWN BIRD CRAME. WHOOFING RHOWN BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD CRAME. WHOOFING RHOWN BIRD CRAME. WHOOFING BIRD FALCON. PERESRINE POSSIBLE BIRD CRAME. WHOOFING HOWN BIRD BAGE. BALD POSSIBLE BIRD CRAME. WHOOFING BIRD FALCON. PERESRINE HOWN BIRD BAGE. BALD POSSIBLE BIRD FALCON. PERESRINE HOWN BIRD BAGE. BALD POSSIBLE BIRD FALCON. PERESRINE HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN PLANT WILKWED, HEAD'S KNOWN PLANT WILKWED, HEAD'S KNOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE NOWN BIRD CRAME. WHOOFING
SCHEER POSSIBLE SIRD TERM. INTERIOR (FOPULES I LAWFORD KNOWN SIRD SALE, SALD PRESENTE SIRD FALCON, PERESTINE MOWN SIRD FALCON, PERESTINE MOWN SIRD FALCON, PERESTINE MOWN SIRD CRAWFORD KNOWN SIRD CRAWFORD POSSIBLE FLANT URCHID, WESTERN FRAIL SECUTOR CHOMN SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE MOWN SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD CRAME, WHOOPING SIRD FALCON, PERESTINE SIRD	HOSSIBLE BIRD TERN. INTERIOR (FOPULATION) LEAST KNOWN HAMMAL BAT. GRAY FNOWN BIRD BAGE. BALD POSSIBLE BIRD FALCON. PERESRINE HANDWAY BIRD CRAME. WHOOFING RHOWN BIRD CRAME. WHOOFING RHOWN BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD CRAME. WHOOFING RHOWN BIRD CRAME. WHOOFING BIRD FALCON. PERESRINE POSSIBLE BIRD CRAME. WHOOFING HOWN BIRD BAGE. BALD POSSIBLE BIRD CRAME. WHOOFING BIRD FALCON. PERESRINE HOWN BIRD BAGE. BALD POSSIBLE BIRD FALCON. PERESRINE HOWN BIRD BAGE. BALD POSSIBLE BIRD FALCON. PERESRINE HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN PLANT WILKWED, HEAD'S KNOWN PLANT WILKWED, HEAD'S KNOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING HOWN BIRD CRAME. WHOOFING POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE POSSIBLE BIRD FALCON. PERESRINE NOWN BIRD CRAME. WHOOFING
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S CAMPORD POSSIBLE SIRD FALCON, PERESTINE SIRD FALCON, PERESTINE SIRD FALCON, PERESTINE AND FALCON, PERESTINE SIRD FALCON, PERESTINE SIRD FALCON, PERESTINE SIRD FALCON, PERESTINE SIRD FALCON, PERESTINE SIRD CRAME, ARODE INS CECATUR CHOMN SIRD CRAME, ARODE INS CECATUR ROOMN SIRD FALCON, PERESTINE SIRD FALCON, PERESTINE SIRD FALCON, PERESTINE SIRD CRAME, WHOOP INS CECATUR POSSIBLE SIRD CRAME, WHOOP INS CECATUR POSSIBLE SIRD CRAME, WHOOP INS CECATUR POSSIBLE SIRD CRAME, WHOOP INS CECATUR POSSIBLE SIRD CRAME, WHOOP INS CECATUR POSSIBLE SIRD FALCON, PERESTINE SIRD FALCON,	#NOWN SIRD FALCON. PERESRINE KNOWN FLANT MILKWEED, MEAD'S POSSIBLE FLANT ORCHID, WESTERN FRAIRIE FRINGED THOWN SIRD CRAME. WHOOPINS RNOWN SIRD FALCON. PERESRINE POSSIBLE SIRD FALCON. PERESRINE POSSIBLE SIRD FALCON. PERESRINE POSSIBLE SIRD CRAME. WHOOPING FNOWN SIRD EAGLE. SALD POSSIBLE SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD CRAME. WHOOPING RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE POSSIBLE SIRD FALCON. PERESRINE POSSIBLE SIRD FALCON. PERESRINE POSSIBLE SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE POSSIBLE SIRD FALCON. PERESRINE POSSIBLE SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE POSSIBLE SIRD FALCON. PERESRINE RNOWN SIRD FALCON. PERESRINE
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ANOWN FLANT WILKNEED, MEAD'S S CRAWFORD POSSIBLE FLANT URCHID, WESTERN FRAIL S CECATUR INDOWN SIRD CRAME, AMOOF INS S CECATUR POSSIBLE PIRD CRAME, AMOOF INS S CECATUR POSSIBLE PIRD FALCON, FEREBRINE POSSIBLE PIRD CRAME, WHOOP INS S CICKINSON FOSSIBLE PIRD CRAME, WHOOP INS S CICKINSON FOSSIBLE PIRD CRAME, WHOOP INS S CICKINSON POSSIBLE PIRD CRAME, WHOOP INS S CICKINSON POSSIBLE PIRD FALCON, PEREBRINE S CONTEMAN HOWN SIRD FALCON, PEREBRINE S CONTEMAN HOWN SIRD FALCON, PEREBRINE S CONTEMAN HOWN FISH STURBEON, PALLID S CONTEMAN HOWN FISH STURBEON, PALLID S COUGLAS TOSSIBLE PIRD FALCON, PEREBRINE S COUGLAS HOWN PIRD CRAME, WHOOP INS KS COUGLAS HOWN PIRD FALCON, PEREBRINE AS COUGLAS HOWN PIRD CRAME, WHOOP INS S COUGLAS KNOWN PIRD FALCON, PEREBRINE AS COUGLAS KNOWN PIRD FALCON, PEREBRINE AS COUGLAS KNOWN PIRD CRAME, WHOOP INS KS COWARDS KNOWN PIRD CRAME, WHOOP INS KS COWARDS KNOWN PIRD CRAME, WHOOP INS KS COWARDS KNOWN SIRD CRAME, WHOOP INS KS COWARDS HOWN SIRD FALCON, PEREBRINE AS COWARDS POSSIBLE PIRD FALCON, PEREBRINE KS COWARDS HOWN SIRD CRAME, WHOOP INS KS COWARDS POSSIBLE PIRD FALCON, PEREBRINE AS COWARDS POSSIBLE PIRD FALCON, PEREBRINE AS COWARDS POSSIBLE PIRD FALCON, PEREBRINE AS COWARDS POSSIBLE PIRD FALCON, PEREBRINE AS COWARDS POSSIBLE PIRD FALCON, PEREBRINE AS COWARDS POSSIBLE PIRD FALCON, PEREBRINE AS COWARDS POSSIBLE PIRD FALCON, PEREBRINE AS COWARDS POSSIBLE PIRD FALCON, PEREBRINE AS COLLES HOWN PIRD CRAME, WHOOP INS AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COLLES HOWN PIRD CRAME, WHOOP INS AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COLLES HOWN PIRD CRAME, WHOOP INS AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COLLES HOWN PIRD CRAME, WHOOP INS AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COLLES HOWN PIRD CRAME, WHOOP INS AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COMARDS POSSIBLE PIRD FALCON, PEREBRINE AS COMARDS PO	NOWN FLANT MILKWEED, MEADIS POSSIBLE FLANT ORCHID, WESTERN FRAIRIE FRINGED THOWN SIRD CRANE, MHOOPING RHOWN SIRD EAGLE, SALD POSSIBLE SIRD FALCON, PERESRINE POSSIBLE SIRD CRANE, MHOOPING FINDWN SIRD EAGLE, FALD POSSIBLE SIRD CRANE, MHOOPING FINDWN SIRD EAGLE, FALD POSSIBLE SIRD FALCON, PERESRINE FINDWN SIRD EAGLE, FALD POSSIBLE SIRD FALCON, PERESRINE FINDWN SIRD EAGLE, FALD POSSIBLE SIRD FALCON, PERESRINE FINDWN SIRD EAGLE, AMERICAN BURYING RHOWN SIRD CRANE, MHOOPING RHOWN SIRD EAGLE, FALD FOSSIBLE SIRD FALCON, PERESRINE RHOWN SIRD EAGLE, FALD FOSSIBLE SIRD FALCON, PERESRINE RHOWN FISH STURBEON, FALLID RHOWN SIRD CRANE, MHOOPING RHOWN SIRD CRANE, MHOOPING RHOWN SIRD CRANE, MHOOPING RHOWN SIRD EAGLE, SALD FOSSIBLE SIRD FALCON, PERESRINE POSSIBLE SIRD FALCON, PERESRINE
POSSIBLE FLANT URCHID, WESTERN FRAIL S CECATUR MNOWN SIRD CRANE. #HOOFINS CECATUR RNOWN SIRD CRANE. #HOOFINS CECATUR POSSIBLE PIRD FALCON. FEREBRINE S DECATUR POSSIBLE PIRD FALCON. FEREBRINE S DECATUR POSSIBLE PIRD CRANE. #HOOFINS CICKINSON POSSIBLE PIRD CRANE. #HOOFINS CICKINSON POSSIBLE PIRD CRANE. #HOOFINS CICKINSON POSSIBLE PIRD FALCON. FEREBRINE CONTRARAN RNOWN BIRD FALCON. FEREBRINE CONTRARAN POSSIBLE PIRD FALCON. FEREBRINE COUGLAS RNOWN BIRD CRANE. #HOOFING COUGLAS RNOWN BIRD CRANE. #HOOFING COUGLAS RNOWN PLANT MILKNEED, HEAD'S COUGLAS RNOWN PLANT MILKNEED, HEAD'S COUGLAS RNOWN FISH STURBEON. FALLID CRANE. #HOOFING KS EDWARDS RNOWN BIRD CRANE. #HOOFING KS EDWARDS RNOWN BIRD CRANE. #HOOFING KS EDWARDS RNOWN BIRD CRANE. #HOOFING KS EDWARDS RNOWN BIRD CRANE. #HOOFING COUGLAS RNOWN BIRD CRANE. #	POSSIBLE FLANT URCHID, WESTERN FRAIRIE FAINGED THOWN SIRD CRANE. WHOOPING RHOWN SIRD EAGLE. SWLD POSSIBLE SIRD FALCON. FERESRINE POSSIBLE SIRD CRANE. WHOOPING FNOWN SIRD EAGLE. SWLD POSSIBLE SIRD CRANE. WHOOPING FNOWN SIRD EAGLE. SWLD POSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. HAD POSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. HAD POSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. WHOOPING FNOWN SIRD CRANE. WHOOPING FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD CRANE. WHOOPING FNOWN SIRD CRANE. WHOOPING FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FOSSIBLE SIRD FALCON. FERESRINE FOSSIBLE SIRD FALCON. FERESRINE FOSSIBLE SIRD FALCON. FERESRINE FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FOSSIBLE SIRD FALCON. FERESRINE FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD EAGLE. SWLD FNOWN SIRD F
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SIGNIFHAM SOUND SIRD EAGLE BALD SIGNIFHAM POSSIBLE BIRD FALCON, PEREGRINE SIGNIFHAM SOUND FISH BIUGEON, PALLID SIGNIFHAM SOUND FISH BIUGEON, PALLID SIGNIFHAM SOUND FISH BIUGEON, PALLID SIGNIFHAM SOUND FISH BIUGEON, PALLID SIGNIFHAM SOUND BIRD CRAME, AHOOPING SIGNIFHAM S	NOWN SIRD EAGLE. EALD POSSIBLE SIRD FALCON. PEREBRINE NOWN FISH STURGEON. FALLID POSSIBLE INSECT SEETLE. AMERICAN BURYING RNOWN SIRD CRAME. WHOOPING RNOWN SIRD EAGLE. EALD POSSIBLE SIRD FALCON. PEREBRINE RNOWN PLANT MILKWEED. MEAD'S KNOWN PLANT ORCHID. WESTERN PRAIRIE FRINGED RNOWN FISH STURGEON. PALLID RNOWN SIRD CRAME. WHOOPING RNOWN SIRD EAGLE. SALD POSSIBLE SIRD PALCON. PEREBRINE POSSIBLE SIRD PLOVER. PIPING POSSIBLE AIRD TERN. INTERIOR (POPULATION) LEAST NOWN SIRD EAGLE. SALD POSSIBLE SIRD FALCON. PEREBRINE NOWN SIRD EAGLE. PALCON. PEREBRINE CRAME. WHOOPING
SCHIFFAM FOSSIBLE SIRD FALCON, FEREGRINE SCHIFFAM FOSSIBLE SIRD FALCON, FEREGRINE SCHOOLAS FOSSIBLE SIRD CRANE, AHOOPING SCHOOLAS ROOMN SIRD CRANE, AHOOPING SCHOOLAS ROOMN SIRD CAGE, SALD SCHOOLAS ROOMN PLANT MILKWEED, HEAD'S SCHOOLAS ROOMN PLANT MILKWEED, HEAD'S SCHOOLAS ROOMN PLANT ORCHID, WESTERN PRATE SCHOOLAS ROOMN FISH STURGEON, FALLID SCHOOLAS ROOMN FISH STURGEON, FALLID SCHOOLAS ROOMN SIRD CRANE, WHOOPING SCHOOLAS ROOMN SIRD CRANE, WHOOPING SCHOOLAS ROOMN SIRD CAGE, SALD SCHOOLAS ROOMN SIRD CAGE, SALD SCHOOLS ROOMN SIRD CAGE, SALD SCHOOLS POSSIBLE SIRD FALCON, FEREGRINE SCHOOLS POSSIBLE SIRD FALCON, FEREGRINE SCHOOLS POSSIBLE SIRD FALCON, FEREGRINE SCHOOLS POSSIBLE SIRD FALCON, FEREGRINE SCHOOLS POSSIBLE SIRD FALCON, FEREGRINE SCHOOLS ROOMN SIRD CAGNE, WHOOPING SCHIB ROOMN SIRD CAGNE, WHOOPING SCHIB ROOMN SIRD CAGNE, WHOOPING SCHIB ROOMN SIRD CAGNE, WHOOPING SCHIB ROOMN SIRD CAGNE, WHOOPING SCHIB ROOMN SIRD CAGNE, WHOOPING SCHIB ROOMN SIRD CAGNE, WHOOPING SCHIBHORTH ROOMN SIRD CAGNE, WHOOPING SCHI	FOSSIBLE BIRD FALCON. FEREBRINE FNOWN FISH STURGEON. FALLID FOSSIBLE IVSECT BEETLE. AMERICAN BURYING KNOWN BIRD CRANE. AHOOPING KNOWN BIRD FALCON. FEREBRINE ANOWN PLANT MILKWEED. HEAD'S KNOWN FISH STURBEON. FALLID KNOWN BIRD CRANE. WHOOPING KNOWN BIRD CRANE. WHOOPING KNOWN BIRD FALCON. FEREBRINE POSSIBLE BIRD FALCON. FEREBRINE POSSIBLE BIRD PLOYER. FIPING POSSIBLE BIRD PLOYER. FIPING FOSSIBLE BIRD FALCON. FEREBRINE FOSSIBLE BIRD FALCON. FEREBRINE FOSSIBLE BIRD FALCON. FEREBRINE CHOOMN BIRD FALCON. FEREBRINE CHOOMN BIRD FALCON. FEREBRINE CHOOMN BIRD FALCON. FEREBRINE CHOOMN BIRD FALCON. FEREBRINE CHOOMN BIRD CRANE. WHOOPING
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TOUGLAS TOUGHAS ROOM BIRD CRANE. AHOOPING TOUGLAS ROOM BIRD CRANE. AHOOPING TOUGLAS ROOM BIRD CRANE. AHOOPING TOUGLAS ROOM BIRD EAGLE. SALD TOUGLAS FOSSIBLE BIRD FALCON. FEREGRINE TOUGLAS ROOM PLANT MILKWEED, MEAD'S TOUGLAS ROOM FISH STURGEON. FALLID TOUGLAS ROOM FISH STURGEON. FALLID TOUGLAS ROOM BIRD CRANE. WHOOPING TOUGLAS ROOM BIRD CRANE. WHOOPING TOUGLAS ROOM BIRD EAGLE. BALD TOUGLAS ROOM BIRD FALCON. FEREGRINE TOUGLAS ROOM BIRD FALCON. FEREGRINE TOUGLAS ROOM BIRD CRANE. WHOOPING TOUGLAS ROOM BIRD TOUGLAS ROOM BIRD TOUGLAS ROOM BIRD TOUGLAS ROOM BIRD TOUGLAS ROOM BIRD TOUGLAS ROOM	ADSSIBLE INSECT BEETLE, AMERICAN BURYING RNOWN BIRD CRAME, WHOOPING RNOWN BIRD EAGLE, EALD FOSSIBLE BIRD FALCON, PEREGRINE RNOWN PLANT MILKWEED, HEAD'S KNOWN FISH STURBEON, FALLID RNOWN BIRD CRAME, WHOOPING RNOWN BIRD EAGLE, BALD FOSSIBLE BIRD FALCON, PEREGRINE POSSIBLE BIRD PLOVER, FIFING FOSSIBLE BIRD TERN, INTERIOR (FOPULATION) LEAST NOWN BIRD EAGLE, BALD FOSSIBLE BIRD FALCON, PEREGRINE POSSIBLE BIRD FALCON, PEREGRINE ROOWN BIRD EAGLE, BALD FOSSIBLE BIRD FALCON, PEREGRINE RNOWN BIRD CRAME, WHOOPING
ANOWN SIRD CRAME. AHOOPING AS COUGLAS KNOWN SIRD EAGLE. SALD AS COUGLAS KNOWN SIRD FALCON. PEREGRINE AS COUGLAS HOOWN PLANT MILKWEED, KEAD'S ANOWN PLANT ORCHID. WESTERN PRATE COUGLAS KNOWN FISH STURGEON. FALLID AS EDWARDS KNOWN SIRD CRAME. WHOOPING AS EDWARDS HOOWN SIRD FALCON. PEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. PEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. PEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. FEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. FEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. FEREGRINE AS ELSA ANOWN SIRD EAGLE. BALD AS SALK POSSIBLE SIRD FALCON. FEREGRINE AS SALIS HOOWN SIRD CRAME. WHOOPING AS CALIS KNOWN SIRD CRAME. WHOOPING AS CALIS FOSSIBLE SIRD FALCON. FEREGRINE AS CALIS FOSSIBLE SIRD FALCON. FEREGRINE AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH CRAME. FREGRINE AS CALSHORTH CRAME. FREGRINE AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. AS CALSHORTH CRAME. CRAME. AS CALSHORTH CRAME. AS CALSHORTH	ENOWN SIRD CRAME. #HOOPING ENOWN SIRD EAGLE. SALD FOSSIBLE SIRD FALCON. FEREBRINE ENOWN PLANT MILKWEED, HEAD'S ENOWN FISH STURBEON. FALLID ENOWN SIRD CRAME. #HOOPING ENOWN SIRD EAGLE. SALD FOSSIBLE SIRD FALCON. FEREBRINE FOSSIBLE SIRD FALCON. FIFING FOSSIBLE SIRD FEREBRINE FOSSIBLE SIRD TERN. INTERIOR (FOPULATION) LEAST UNDWN SIRD EAGLE. SALD FOSSIBLE SIRD FALCON. FEREBRINE ENOWN SIRD EAGLE. SALD FOSSIBLE SIRD FALCON. FEREBRINE ENOWN SIRD CRAME. #HOOPING
ANOWN SIRD CRAME. AHOOPING AS COUGLAS KNOWN SIRD EAGLE. SALD AS COUGLAS KNOWN SIRD FALCON. PEREGRINE AS COUGLAS HOOWN PLANT MILKWEED, KEAD'S ANOWN PLANT ORCHID. WESTERN PRATE COUGLAS KNOWN FISH STURGEON. FALLID AS EDWARDS KNOWN SIRD CRAME. WHOOPING AS EDWARDS HOOWN SIRD FALCON. PEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. PEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. PEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. FEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. FEREGRINE AS EDWARDS POSSIBLE SIRD FALCON. FEREGRINE AS ELSA ANOWN SIRD EAGLE. BALD AS SALK POSSIBLE SIRD FALCON. FEREGRINE AS SALIS HOOWN SIRD CRAME. WHOOPING AS CALIS KNOWN SIRD CRAME. WHOOPING AS CALIS FOSSIBLE SIRD FALCON. FEREGRINE AS CALIS FOSSIBLE SIRD FALCON. FEREGRINE AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH KNOWN SIRD CRAME. WHOOPING AS CALSHORTH CRAME. FREGRINE AS CALSHORTH CRAME. FREGRINE AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. CRAME. WHOOPING AS CALSHORTH CRAME. CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. CRAME. AS CALSHORTH CRAME. CRAME. AS CALSHORTH CRAME. CRAME. AS CALSHORTH CRAME. AS CALSHORTH	ENOWN SIRD CRAME. #HOOPING ENOWN SIRD EAGLE. SALD FOSSIBLE SIRD FALCON. FEREBRINE ENOWN PLANT MILKWEED, HEAD'S ENOWN FISH STURBEON. FALLID ENOWN SIRD CRAME. #HOOPING ENOWN SIRD EAGLE. SALD FOSSIBLE SIRD FALCON. FEREBRINE FOSSIBLE SIRD FALCON. FIFING FOSSIBLE SIRD FEREBRINE FOSSIBLE SIRD TERN. INTERIOR (FOPULATION) LEAST UNDWN SIRD EAGLE. SALD FOSSIBLE SIRD FALCON. FEREBRINE ENOWN SIRD EAGLE. SALD FOSSIBLE SIRD FALCON. FEREBRINE ENOWN SIRD CRAME. #HOOPING
RNOWN SIRD EABLE SALD RS 1306LAS FOSSIBLE SIRD FALCON, FEREBRINE RS 2006LAS RNOWN PLANT MILKWEED, HEAD'S RS 3006LAS RNOWN PLANT ORCHID, WESTERN PRATE 1506LAS RNOWN FISH STURBEON, FALLID RS 20WARDS RNOWN SIRD CRAME, WHOOPING RS 20WARDS POSSIBLE SIRD FALCON, FEREBRINE RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS POSSIBLE SIRD PLOVER, FIPING RS 20WARDS	ANOWN SIRD EAGLE, TALD FOSSIBLE SIRD FALCON, PEREBRINE ANOWN PLANT MILKWEED, HEAD'S KNOWN FISH STURBEON, PALLID ANOWN SIRD CRAME, WHOOPING ANOWN SIRD EAGLE, SALD FOSSIBLE SIRD FALCON, PEREBRINE POSSIBLE SIRD PLOVER, FIPING POSSIBLE SIRD TERM, INTERIOR (POPULATION) LEAST ANOWN SIRD EAGLE, SALD FOSSIBLE SIRD FALCON, PEREBRINE POSSIBLE SIRD FALCON, PEREBRINE ANOWN SIRD EAGLE, SALD FOSSIBLE SIRD FALCON, PEREBRINE ANOWN SIRD CRAME, WHOOPING
FOSSIBLE SIRD FALCON, FEREBRINE SOUGLAS ANOWN PLANT MILKNEED, HEAD'S SOUGLAS KNOWN PLANT ORCHID, WESTERN PRATE SOUGLAS KNOWN FISH STURSEON, FALLID RS EDWARDS ANOWN SIRD CRAME, WHOOPING RS EDWARDS FOSSIBLE SIRD FALCON, FEREBRINE SEMARDS POSSIBLE SIRD FALCON, FEREBRINE SELA NOWN SIRD EAGLE, SALD SELA NOWN SIRD FALCON, FEREBRINE SELIS FOSSIBLE SIRD FALCON, FEREBRINE RS ELLIS FOSSIBLE SIRD FALCON, FEREBRINE RS ELLIS FOSSIBLE SIRD FALCON, FEREBRINE RS ELLIS FOSSIBLE SIRD FALCON, FEREBRINE RS ELLISHORTH KNOWN SIRD CRAME, WHOOPING RS ELLSHORTH KNOWN SIRD CRAME, WHOOPING RS ELLSHORTH KNOWN SIRD CRAME, WHOOPING RS FINNEY RNOWN SIRD CRAME, WHOOPING RS FINNEY ROSSIBLE SIRD FALCON, FEREBRINE RS FINNEY FOSSIBLE SIRD FALCON, FEREBRINE RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING RS FINNEY FOSSIBLE SIRD PLOVER, FIPING	FOSSIBLE SIRD FALCON, FEREBRINE RNOWN PLANT MILKWEED, HEAD'S KNOWN FISH STURBEON, FALLID RNOWN SIRD CRAME, WHOOPING RNOWN SIRD EAGLE, SALD FOSSIBLE SIRD FALCON, FEREBRINE POSSIBLE SIRD PLOVER, FIPING POSSIBLE SIRD TERN, INTERIOR (FOPULATION) LEAST NOWN SIRD EAGLE, SALD FOSSIBLE SIRD FALCON, FEREBRINE ROSSIBLE SIRD FALCON, FEREBRINE ROSSIBLE SIRD FALCON, FERESRINE RNOWN SIRD CRAME, WHOOPING
RNOWN PLANT MILKWEED, MEAD'S SOUGLAS KNOWN PISH STURBEON, FALLID RS EDWARDS KNOWN BIRD CRAME, WHOOPING RS EDWARDS RNOWN BIRD EAGLE, BALD KS EDWARDS POSSIBLE BIRD PLOVER, FIPING SEDWARDS POSSIBLE BIRD FALCON, FEREBRINE SEDWARDS POSSIBLE BIRD FALCON, FEREBRINE SEDWARDS POSSIBLE BIRD FALCON, FEREBRINE SELA UNDWN BIRD EAGLE, BALD SELA UNDWN BIRD CRANE, WHOOPING SELIS ROWN BIRD EAGLE, BALD SELIS FOSSIBLE BIRD FALCON, FEREBRINE SELISHORTH KNOWN BIRD CRANE, WHOOPING SELESHORTH ROWN BIRD CRANE, WHOOPING SELESHORTH FOSSIBLE BIRD FALCON, FEREBRINE SELESHORTH ROWN BIRD CRANE, WHOOPING SELESHORTH ROWN BIRD CRANE, WHOOPING SELESHORTH ROWN BIRD CRANE, WHOOPING SELESHORTH ROWN BIRD CRANE, WHOOPING SELESHORTH ROWN BIRD CRANE, WHOOPING SELESHORTH ROWN BIRD CRANE, WHOOPING SELESHORTH ROWN BIRD CRANE, WHOOPING SELESHORTH ROWN BIRD CRANE, BIRD SELESHORTH ROWN BIRD CRANE, WHOOPING SE	ANOMN PLANT MILKWEED, HEAD'S KNOWN PLANT ORCHID. WESTERN PRAIRIE FRINGED ANOWN FISH STURBEON. FALLID KNOWN BIRD CRAME. WHOOPING ANOMN BIRD EAGLE. SALD POSSIBLE BIRD FALCON. PEREGRINE POSSIBLE BIRD PLOVER. FIFING POSSIBLE AIRD TERN. INTERIOR (POPULATION) LEAST ANOWN BIRD EAGLE. BALD POSSIBLE BIRD FALCON. PERESRINE ANOWN BIRD CRAME. WHOOPING
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3	-TAHER-L	: NōWi	BIRĐ	EAGLE. SALD
Ė	. IF-FFEIH	FOSSIBLE	FIRD	FALCON. FERESRINE
Ē	89 08	√.NŪWN	SIRD	CRANE, LHOOPINS
: :	E-JE	HOWN	EIRD	EMBLE. FALD
÷	EADE	FOESIELE	HEB	FALCON. PEREGRINE
Ē	JEATE	- news	SIRD	FLOVER. FIFING
: 3	-EAB E	: NOWN ,	FIRD	TERN. INTERIOR (FOPULATION) LEAST
٠Ξ	[AMI	hiiûd 1	EIRD	EABLE. EALD
۲. 5	fiam:	POSSIBLE	EIRD	FALCON, FEREBRINE
٤٠	-IAMI	: nūwn	PLANT	MILKWEED. MEAD'S
3	dITCHELL	HWON :	SIRD	CRANE. Whoofing
, 5	MITCHELL	ANGWN	BIRD	EAGLE. FALD
ž	TITCHELL	FOSSIBLE		FALCON. FEREBRINE
3	HONTGOREF)	POSSIBLE		BEETLE. HAERICAN BURYING
. 3	rONTEGAER :		SIRD	EAGLE, BALD
• 3	"ONTGOMER:	POSSIBLE		FALCON. FEREBRINE
3	FORRIE		BIRD	EAGLE. BALD
3	- JERIE	POSSIBLE	BIRD	FALCON. FEREBRINE
, <u>\$</u>	10RR15	i nown	FISH	MADTON. MEOSHO
S	'BRTON	- NOWN	BIRD	EAGLE. EALD
: 3	HIRTON	FOSSIBLE	EIRD	FALCON, FEREGRINE
•	CRION	FOSSIBLE	MAMMAL	FERRET, ELACK-FOOTED
: 3	(EMAH)	ENOUN	BIRD	EAGLE. FALD
; 3	EMAHA		BIRD	FALCON, FEREGRINE
3	.EOSHG		FIRD	EAGLE. BALD
15	₹83H0	POSSIBLE	BIRD	FALCON. FEREBRINE
3	HE05HG	KNOWN	FISH	MADTOM. NEOSHO
: S	NEGEHO	KNOWN	PLANT	MILKNEED, NEAD'S
13	.:E33	KNOWN	BIRD	CRANE. WHOOPING

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E33
                               FOSSIBLE IISD
                                                        FALCEN. PEREERINE
        333
                               FUSSIBLE
                                         'AMMAL
                                                        FERRET. BLACK-FOOTED
       SATON
                               - HOWN
                                           SIRD
                                                        ISANE, WHOOPING
       108706
                               CHOWN
                                          EIRD
                                                        EAGLE. EALD
       ORTON
                           . POSSIELE SIRD
                                                        FALCON, FEREGRINE
       JATON:
                              FOSSIBLE -AMMAL
                                                       FERRET. SLACK-FOOTED
       1343E
                                      FIRD
                              AWCH:
                                                       ERANE. %HOOPING
       . JAGE
                              HOWN
                                          BIRD
                                                       EAGLE. FALD
                               FOSSIBLE BIRD
       3995
                                                       FALCON. PEREGRINE
     --35
                              HOWN
                                          FLANT
                                                       GROHID. WESTERN FRAIRIE FRINGED
     EEERNE
                             JAGWN
                                          JIRD
                             . NOWN
. Nown
                                                       CRANE. AHOOFINS
       EEDRNE
                                                       EAGLE. FALD
                                          EIRD
      BEBUFAE
                              ADBBIBLE DIRB
                                         SIRB
SIRB
SIRB
SIRD
SIRD
                                                       FALCON, PEREGRINE
  Ē
     777
                            NOWN SIRD
                                                       CRANE. ##00FING
    ITTAHA
  Ξ
                              NOWN
                                                       EAGLE. BALD
 ٠ ξ
     HAH
                              FOSSIBLE BIRD
                                                       FALCON, FERESKINE
  3
    ==HNEE
                              ANOWN FIRD
                                                      DRANE. ADCOFING
                                                   EABLE. THED
FALCON. FEREDRINE
  3 FHANEE
                              NOWN
                                          BIRD
  :
     HANEE
                              POSSIBLE LIAD
  E FLANEE
                              GREIBLE BIRD
                                                    FLOVER. FIFING
                            FOSSIBLE DIRD
    F - RIEE
                                                    TERN. INTERI
GRANE. WHOOP
EAGLE. DALD
FALCON. PERE
                                                      TERN. INTERIOR .FORULATION: LEAST
    1-111175
                             NOWN BIRD
                                                      SPANE. WHOOPING
  E F-HLLIFF
    -'LLIFE
                              F099988E 8180
                                                      FALCON. FEREBRINE
     1-10-17
                             พิบิพัส
เปิดฟ์
                                          1125
                                                       PLOVER, FIFING
    --:11.155
                                         HIFD
                                                       TERN. LATERIER FORWLATION LEAST
   POTEMATORIE
                              ABSBIBLE WIBECT
                                                      REETLE. -MERICAN BURYING
                                               LLE IGED
FACTOR FERENTI
DROHID. WESTERN
CRANE. WHOOPING
EXBLE. BALD
FALCOR
                              NOWN SIRD
FOSSIBLE TIRD
FOSSIBLE FLANT
     - HTTL HARRIE
    PINDIAHATON1E
                                                       FALCOL PEREGRINE
 3 - STTAWATERIE
                                                      GRONID. WESTERN FRAIRIE FRINGED
                             NOWN
FE FRATT
                                         SIRD
     FRATT
                                         SIRD
     FFATT
                              FOSSIBLE TIRD
                                                      FALCON, PEREBRINE
                                        FALLUM, FEREGRINE
FIRD CRANE, GHODPING
FIRD EAGLE, SALD
FIRD FALCON, FEREGRINE
FAHNAL FERRET, SLACK-FOOTED
FIRD CRANE, GHOOPING
FIRD FACE THE
     F-WLINS
                             NOWN SIRD
     FAMILINS
                              UNOWN
     FAHL IIIE
                             FOSSIBLE SIRD
     FIAL INE
                           FNOWN HAMMAL
     1505
                             HOWN
                             NOWN SIRD
                                                 CRANE. WHOOPING
EMOLE. SALD
FALCON. PEREBRINE
PLOVER. FIPING
TERN. INTERIOR (POPULATION) LEAST
CRANE. WHOOFING
EMOLE. PALD
FALCON. PEREBRINE
CRANE. WHOOFING
     - EHG
     -515
                           FOREIBLE BIRD
     15%5
                           AGNN SIRD
    FENO
                          KWOM :
KWQK.:
                                         SIRD
   SEBUELIO
                                         EIRD
                          r NOWN EIRD
Fossiele Sird
. 5
    FERNELIC
     REFUELIO
   FILE
                           KNOWN
                                         BIRD
   RICE
                                                  EAGLE. SALG
FALCON. FEREGRINE
                           NOWN
                                         BIRD
    FICE
                             FOSSIBLE BIRD
                                                  FLOVER, FIRING
TERN, INTERIOR (POPULATION) LEAST
    FICE
                             KNOWN
                                        BIRD
    SICE
                             n Ni GWNi
                                         SIRD
                                                EEETLE. AMERICAN BURYING
CRANE, WHOOPING
                             POSSIBLE INSECT
·Ξ
                             KNOWN
                                        SIRD
    TILE:
                             KNOWN
                                        BIRD
                                                    EAGLE, EALD
   FILE
                             POSSIBLE BIRD
                                                   " FALCON, FEREGRINE
3 FILE.
                                                     CRCHID. WESTERN FRAIRIE FRINGED
                             FOSSIBLE FLANT
   173KS
                             KNOWN
                                        EIRD
                                                    CHANE. WHOOPING
F 700k8
                             I.NOWN
                                        BIRD
                                                    EAGLE. SALD
    IIGAS
                             FOSSIBLE BIRD
                                                     FALCON, FERESRINE
ra RUSH
                            LAONN
                                        EIRD
                                                      CRANE. WHOOFING
rs Fush
                            NOWN
                                        EIRD
                                                     EAGLE. SALD
3 RUSH
                            POSSIBLE FIED
                                                     FALCON. FEREGRINE
+5 FLSSELL
                            KNOWN
                                        SIRD
                                                     CRANE, WHOOPING
. S FUSSELL
                            LNOWN
                                        SIRD
                                                     EAGLE. SALD
S FUSSELL
                            FOSSIBLE BIRD
                                                     FALCON. FEREERINE
FE EALINE
                             POSSIBLE INSECT
                                                     BEETLE. AMERICAN BURYING
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3	EALINE	rNOWN	180	ริพธิเลิน มีสันน์
٤	E-LINE	FOSSIBLE		
-				FALCOM. FERESRINE
3	ECOTT	nwom.	FIRD	IRANE. wmOGFING
3	11377	NOWN	BIRD	EAGLE. EAL9
:	30077	encett: f	EIRD	
-	•			
=	11017		ebMAL	FERRET. BLACK-FOOTED
-	EED5WICK	HOWN	EIRÐ	CRANE. WHOOFING
	FEDGWIE:	· NOWN	EIRD	EMBLE. EMLD
3	SELEMIC:			
		FOSSIBLE		SALCON. PEREBRINE
3	JEDDW15:		'-MMAL	FERRET. FLAUK-FOOTED
Ξ	3505W16*	FOSSIELE	1150	FLOVER, FIFING
. 2	FELGNICI	FOSSIELE		TERN. DATERIOS (FORWLATION) LEAST
Ē	SZWARD	NOWN		IRANE. AHOOPING
٠3	FEMALE	. NOWN	SIRD	FASLE. SALP
3	EWARD	FOSSIFLE		FALCON. FEREGRINE
	FRANKEE	REGION		IRANEL MAGGEIMB
:	ERANGEE	i ngwn	BIRD	EAGLE. EALD
νĒ	HHHNEE '	FOSSIBLE	EIRD	FALCON. FEREBRINE
, 3	FHANKEE	ANOWN		
3	IHERIDAN	HWON	BIRD	CRANE. whoch INS
Ξ	FREFIDAN	INOWN	EIRD	SAGLEL SALD
3	· :5.13.6	FOSSIBLE	:-::	FALCON, FEFEBRINE
Ξ	F-ERIEme	POSSIELE		FERRET. CLACK-FOOTED
Ē	_ :EFBAN	a GNN	9188	FANE. AROOFING
•	ERMAI	, JWR	-55	ERBLE. IALI
-		-0381818		
3	L EFM4.4			FALCOM. PEREBRINE
	Ereniki	:03318FE	-MMAL	FERRET. ILACA-FOSTED
Ξ	: * .	NOWN	-145	JRAME, WHOOFING
Ξ	- 178	กัสบีฟีโด		EMBLE. IFLD
-	* * * *			•
Ē	- 1114	FOSSIBLE	EIFD	FALCON, FEFESRINE
1.3	STAFFORD	KHOWN	SIAD	CRANE. WHOOFING
	STAFFERD	HOWH		EAGLE. BALD
	STAFFOFD	POSSIFLE	: 17 D	FALCON, PEREGRINE
• 3	STAFFORD	: 4041	SIRD	FLOVER. FIFING
ν.3	ETAFFORE	KNOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
3				
	FIANTON	HOWN	SIRD	EAGLE, EALD
۶,	CTANTON	FOSSIBLE	BIRD	FALCON, PEREGRINE
٠.5		FOSSIBLE	HilliaL	FERRET. ELACK-FOOTED
=	STEVENS		FIAD	EAGLE. EALD
.3				
3	FEVENS	FOSSIELE	2 1 F D	FALCON. FEREBRINE
Ē	LIEVERS	FOSEIBLE	ARMAL	FERRET. SLACK-FERTED
٠3	* HUER	HOWN	- 155	CHANE. WHOOPING
3			_	
	SUMNER	NOWN	BIRD	EAGLE. aALD
ε	EUMMER	POSSIELE	EIFD	FALCON. FEREBRINE
٠ 5	SUMNER	POSSIBLE	SIRD	FLOVER, FIFING
. 3	EUNNER	POSSIBLE	EIRD	TERN. INTERIOR (FORULATION) LEAST
13	THOMAS	LNOWN	SIRD	CRAME. #HOOPING
	THOMAS	i.HOWN	BIRD	EABLE, EALD
· 3	THOMAS	POSSIBLE	EIRD	F4LCON. FERESRINE
٠ 3	2AKG-1			
		POSSIELE	_	FERRET, BLACK-FOOTED
٤	TRE60	KNOWN	BIRD	CRANE. WHOOPING
٠.5	77860	KNOWN	BIRD	E HGLE. EALD
3	T9E60	FOSSIBLE	EIRD	FALCON. FEREBRINE
٠3				
	TRESC	POSSIBLE	FAMMAL	FERRET. BLACK-FOOTED
r.S	vHBAUNSEE	KNOWN	SIRD	GRANE, SHOOPING
Ξ	AABAUNSEE	HNOWN	SIRD	EAGLE, EALD
iS	HABAUNSEE	POSSIBLE		FALCON. FEREGRINE
	#ALLACE	KNOWN		CRANE, WHOOPING
1 3	HALLACE	KNOWN	31RD	EAGLE. FALD
٠S	ARLLACE	POSSIBLE	EIRD	FALCON. PEREBRINE
1.3				
	PLUACE		· · · · · · -	FERRET, BLACK-FOOTED
٠S	MASHINETON	POSSIPLE	EIRD	CRANE, WHOOPING
÷S	HASHINGTON	KNOWN	BIRD	EAGLE. BALD
< S	MASHINGTON	POSSIBLE	BIRD	FALCON. FEREGRINE
is		KNOWN		
1 3	41CHITA	I/ 14 Chall	BIRD	CRANE. NHOOPING

٤	«ICHITA	POSSIELE	CIRD	FALCON. FEREBRINE
ŝ	-118119	FOSSIELE	HAMMAL	FERRET. BLACK-FESTED
· 3	A11304	r.NOWN	BIRD	EAGLE. FALD
3	ATE300	FOSSIELE	EIRD	FALCON. FEREORINE
3	ribiech	. NŪWN	BIRD	ENGLE. SHLF
Ē	- 700007	FOSSIFLE	EIRD	FALCON. FEREBRINE
•	-00 03 0N	AHOWN	FIBH	1ADTOM. NEGSHO
	DOOTTE	NOWN	EIRD	EMOLE. EGLD
3	HRECTTE	FOSSIBLE	1190	FALCON, FEREBRINE
Ξ	a 100TTE	HWDH	∓:3H	STURGEON, FALLID

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1717	E+' -COUNTY+"	-OCCURRENCE+T	"+GROUP+"	'+TRIM(COMMONNAME)
	- iOREM	- i.NOWN	FISH	STURGEGN. PALLID
				EAGLE. BALD
Ð	-FCH183N	*NOWN	BIRD	
	- TONI SOM	KNOWN	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
	-FIHIEGN	*NOWN	FISH	STURGEON. FALLID
-3	-āR.	:.NOWN	HAMMAL	SAT. DRAY
40] -6 F :	POSSIBLE	HAMMAL	BAT. INDIANA
١٥	. 3553	AMONN	FISH	CAVEFISH. GZARK
43	18861	KNOWN	PLANT	CLOVER. RUNNING BUFFALO
10	1-8704	ANOWN	PLANT	MILKWEED, MEAD'S
13	PERTON	KNOWN	MANMAL	BAT, GRAY
٦3	EENTON	FOSSIBLE	FISH	CAVEFISH. DZARK
13	BENTON	KHOWN	FLANT	CLOVER. RUNNING BUFFALO
4.0	LETTON	:.NOWN	FISH	DARTER. NIANGUA
40	TENTON	KNOWN	PLANT	MILKNEED. MEAD'S
Έ	ITLLINGER	POSSIBLE	INSECT	SEETLE. AMERICAN BURYING
:3	BILLINGER	FOSSIBLE	CLAN	PEARLY MUSSEL. CURTIS
10	THE	KHOWN	HAMMAL	BAT. SRAY
2	TOONE		HANNAL	SAT. INDIANA
4		NOWN		
	IGNE	FOSSIELE	HISECT	BEETLE. AMERICAN BURYING
3	30045	: NOWN	PLANT	CLOVER. RUNNING SUFFALO
·:	. IDRE	· NOWN	FISH	STURGEON. FALLID
-3	. มน์ที่ที่ก็ค้น	MOWN	BIRD	PLOVER, PIPING
1.7	IHANAN	HOWN	FISH	STURGEON. PALLID
!9	FUFLER	KWOW.	CLAM	FEARLY MUSSEL. FINK MUCKET
ıÛ	. FLER	r. NOWN	PLANT	PONDBERRY
НG	I~cLa#ค้⊀	k nown	FLANT	CLOVER, RUNNING BUFFALO
. 40	Callawa's	. NONN	BIRD	EAGLE. BALD
	TALLAMAT	POSSIBLE	FISH	STURGEGN. PALLID
	JAMOEN	I. NOWN	MAMMAL	BAT, GRAY
dū	CAMDEN	KNOWN	MAMMAL	BAT, INDIANA
!0	DAMDER	NOWN	FISH	DARTER, NIANGUA
.10	CARE SISARDEAU	POSSIBLE	PLANT	ASTER, DECURRENT FALSE
40	I-FE BIRARDEAU	KNOWN	BIRD	EAGLE. BALD
10	THE STRAKDEAU	FOSSIBLE	FISH	STURGEON, PALLID
10	DARACLL	FOSSIBLE	FISH	STURGEON. PALLID
9	I-RTEP	LNOWN	HAMMAL	BAT, GRAY
ű	.aRTER	KNOWN	FLANT	CLOVER. RUNNING BUFFALO
пÜ	TRIER	POSSIBLE	PLANT	ORCHID. EASTERN PRAIRIE FRINGED
10	-33	KNOWN	PLANT	MILKWEED, HEAD'S
MO	IEDAR	KNOWN	FLANT	CLOVER. RUNNING BUFFALO
40	EDAF	KNOMN	FISH	DARTER. NIANGUA
40	IZDAR	KNOWN	PLANT	GEOCARPON MINIMUM
7.0 19.0	IEDAR	KNOWN	FLANT	MILKWEED, MEAD'S
40	IEDAR IEDAR	ENOWN	CLAH	PEARLY MUSSEL, PINK MUCKET
10	CHARITON	KNOWN	HAMMAL	BAT, INDIANA
d0	CHARITEN	KNOWN	BIRD	EAGLE. BALD
70	In-RITON	POSSIBLE	FISH	STURGEON. PALLID
40 40	CHRISTIAN	KNOWN	MANNAL	BAT. GRAY
43	CHRISTIAN	POSSIBLE	MAMMAL	BAT. INDIANA
.13 .18		KNOWN	PLANT	BLADDERPOD. MISSOURI
10	JARISTIAN Taristian	FOSSIBLE	FISH	CAVEFISH. DIARK
	HRISTIAN			
	THRISTIAN	KNOWN	PLANT	CLOVER. RUNNING BUFFALO
	ILARK	KNOWN	BIRD	EAGLE. BALD
	ILARK	KNOWN	CLAN	NUSSEL. FAT POCKETBOOK
ร์ชี	LÀ Í	KNOWN	BIRD	FALCON. PEREGRINE
'13	Lat	KNOWN	FISH	STURGEON, PALLID
4:D	ILINTON	KNOWN	MANNAL	BAT, INDIANA
*i:3	ICLE	KNOWN	NAMMAL	BAT, GRAY
10	COLE	KNOWN	PLANT	CLOVER, RUNNING BUFFALO
110	IGLE	KNOHN	CLAM	PEARLY MUSSEL, PINK HUCKET

110	- 4 11111	MILLIAM		With the assessment of the second of the sec
40	LIVINGSTON	KNOWN	עהוֹם	Chal
#0	HACON	GWN	odilla.	
HO	MACON	HUNH		شے,
Н0		rūša	•	
		russ		11
MO	ที่นี้เกิด			BHT. INDIANA
	nayre		CLAR	MUSSEL, FAT POCKETBOOK
	ha.	พมิพห	CLAM	PEARLY MUSSEL. HIGGINS' EVE
		r.NOWN	MAMMAL	BAT, GRAY
		KNOWN	HAMMAL	BAT. INDIANA
១១	RILLER '	KNOWN	HANNAL	BAT, GRAY
กบ	HILLER	KNOWN	FISH	DARTER. NIANGUA
#O	HILLER	KNOWN	BIRD	EAGLE. FALD
າປິ	HILLER	KNOWN	člam	PEARLY MUSSEL. FINK MUCKET
				•
0K	MISSISSIFPI	POSSIBLE	INSECT	BEETLE. AMERICAN BURYING
HO	HISSISSIPPI	KNOWN	FISH	STURGEON, FALLID
MO	dISSISSIFFI	KNOWN	FIRD	TERN. INTERIOR (FOPULATION) LEAST
MO	HONITEAU	POSSIBLE	FISH	STURGEON. PALLID
HO	HONROE	KNOWN	MAMMAL	BAT. INDIANA
				·
80	MONTGOHERY	POSSIBLE	FISH	STURGEON. FALLID
40	MORGAN	KNOWN	MAMMAL	BAT. GRAY
40	HEW MADRID	KNOWN	BIRD	EAGLE. BALD
80	NEW MADRID	POSSIBLE	FISH	STURGEON. FALLID
10	NEW MADRID			TERN. INTERIOR (POPULATION) LEAST
	* *	ENOWN	BIRD	
66	'IEWTON	POSSIBLE	INSECT	BEETLE. AMERICAN BURYING
10	-241011	ANOWN	FISH	CAVEFISH. BIARK
άŪ	HODAWAY	KNOWN	MANNAL	BAT, INDIANA
40	CREGON	KNOWN	HAMMAL	SAT. GRAY
30	GREGON	KNOWN	HAMMAL	BAT. INDIANA
_				
40	0SA6E	FOSSIBLE	dammal	BAT. GRAY
но	03 AGE	KNOWN	CLAN	PEARLY MUSSEL. PINK MUCKET
MO	03 AGE	POSSIBLE	FISH	STURGEON, PALLID
	OZARK	KNOWN	MAMMAL	BAT. GRAY
	OZARK	KNOWN	FLANT	CLOVER. RUNNING BUFFALO
HO	PEMISCOT	POSSIBLE	FISH	STURGEON, FALLID
:10	FEMISCOT	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
MO	PERRY	KNOWN	FISH	STURGEON, PALLID
40	FETTIS	KNONN	FLANT	MILKWEED, MEAD'S
MO	PHELPS	KNOWN	PLANT	CLOVER, AUNNING BUFFALO
HO	FHELPS	KNOWN	SIRD	EABLE. BALD
MO	FIKE	KNOWN '	PLANT	ASTER. DECURRENT FALSE
MO	FIRE	POSSIBLE	JAMMAL	BAI, UNHT
MO	PIKE	KNUNK	HANNAL	AMAIGhi , ind
MO	PIKE	K nown	olků	EAGLE. BALD
ΜŪ	Fihê	KNÚMN	CLAN	MUSSEL. FAT POCKETBOOK
40 04	FLATTE	POSSIBLE		STURGEON, PALLID
			FISH	
HO	FÜLK	KNOWN	FISH	DARTER, NIANGUA
96	fülk	KNOWN	PLANT	MILKWEED. HEAD'S
MO	POLK	KŅOHN	BIRD	PLOVER. PIPING
MO	PULASKI	KNOWN	MAMMAL	BAT, GRAY
OK	FULASKI	KNOWN	HAMMAL	BAT, INDIANA
96	PULASKI	KNONN	BIRD	EAGLE. BALD
90	RALLS	KNOWN	MAMMAL	BAT. GRAY
40	RALLS	KNONN	CLAM	MUSSEL. FAT POCKETBOOK
80	RALLS	POSSIBLE	PLANT	ORCHID, EASTERN PRAIRIE FRINGED
MO	RAY	POSSIBLE	FISH	STURGEON. PALLID
MO	REYNOLDS	KNOWN	MANMAL	BAT. GRAY
	REYNOLDS	KNOWN	PLANT	MILKWEED, HEAD'S
	RIPLEY	KNOWN	CLAM	FEARLY HUSSEL, CURTIS'
40	RIPLEY	KNOWN	CLAM	PEARLY MUSSEL. FINK MUCKET
HO	RIPLEY	KNONN	PLANT	PONDBERRY
#10	SALINE	POSSIBLE	FISH	STURGEON. PALLID
MO	SCOTLAND	KNOWN	HAMMAL	BAT, INDIANA
HO	SHANNON	KNOWN	HAMMAL	BAT. GRAY
MO	SHANNON	KNOWN	NAMMAL	BAT, INDIANA
		1714701111	N1 ANT	ACTER RECOMMENT FALSE

		ANUM	2100	LOULE, JOLE
.10	ET. CHARLES	FNOWN	BIRD	FALCON. PEREGRINE
±0	ST. CHARLES	POSSIBLE	FISH	STURGEON, PALLID
НO	ET. SLAIR	FNOWN	HANNAL	BAT. GRAY
40	ST. CLAIR	KNOWN	FISH	DARTER. MIANGUA
40	ST. CLAIR	FNOWN	BIRD	EAGLE. BALD
10	ST. GLAIR	i.NOWN	FLANT	GEOCARPON MINIMUM
	ST. CLAIR	KNOWN	PLANT	HILKWEED, HEAD'S
טל	ST. GENEVIEVE	KNOWN	FISH	STURGEON, FALLID
ήÜ	ar. Louis	POSSIBLE	INSECT	SEETLE. AMERICAN BURYING
40	ET. LOUIS	LHOWN	PLANT	CLOVER. RUNNING BUFFALO
10	ST. LOUIS	KNOWN	BIRD	FALCON. PEREGRINE
40	er. Ladis	KNOWN	GLAM	PEARLY MUSSEL, PINK MUCKET
18	er. Louis	KNOWN	FISH	
0. On	STODDARD	k nown k nown	51 RD	STURGEON, FALLID EAGLE. BALD
.10	ETONE	KNOWN	HAMMAL	
:10 :10	STONE	POSSIBLE	HANNAL	BAT, GRAY
H0	STONE			BAT. INDIANA
:10	BULLIVAN	KNOWN	FISH	CAVEFISH, DZARK
#9	TANEY	KNOWN	MAMMAL	BAT, INDIANA
o	TANEY	KNOWN	HAMMAL	BAT, GRAY
.18 ⊀0	TANEY	KNOWN	HAMMAL	BAT, INDIANA
50		KNOWN	FLANT	CLOVER. no SUFFALO
.10 HQ	TANEY	KNOWN	BIRD	CHOLE
	TEXAS	KNOWN	ก็ค์ที่ก็กะ	SAT, GRAY
ት0 40	TEXAS	r riGilh	INC.	SAT, INDIANA
~0 ~:ī	TEIAS	, MONIN	PLANT	CLOVER. AUNNING BUFFALG
MŪ 40	ERNON	KNOWN	PLANT	CLOVER. RUNNING BUFFALO
10	อัลิกับัน ออลา	KNOWN	FLANT	ATLANEED. MEAD'S
ن. .	HHRREN	POSSIBLE	FISH	STURGEON, PALLID
40 10	WASHINGTON	FNOWN	MAMMAL	BAT. GRAY
40 40	WASHINGTON	KNOWN	HAMMAL	BAT, INDIANA
HO	WAYNE	POSSIFLE	INSECT	BEETLE, AMERICAN BURYING
	HATNE .	KNOWN	PLANT	CLOVER. RUNNING BUFFALD
liu un	JAYNE	KNOWN	8 IRD	ENGLE. BALD
40 NO	WAYNE	KNOWN	CLAN	FEARLY MUSSEL. CURTIS'
40	WAYNE	KNOWN	CLAM	PEARLY MUSSEL, FINK MUCKET
MO	WEBSTER	* NOWN	FISH	DARTER. HIANGUA
40	wa IGHT	i.HOWN	PAMMAL	SAT, GRAY
:10	#RIGHT	K nown	HAMMAL	SAT, INDIANA
űř.	#A LEHT	KNOWN	BIRD	EAGLE. FALD

·

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	ETA	TE+"	'+COUNTY+"	4-000URRENCE+"	'+GROUP+"	"+TRIM(COMMONNAME)
		-DAMS		- KNOWN	BIRD	CRANE, WHOOPING
	45	-JAMS	3	i.nown	BIRD	EAGLE. SALD
_		-DAMS	;	RNOWN	MAMMAL	FERRET, BLACK-FOOTED
	14	-ATHL	IR	KNOWN	BIRD	CRANE. WHOOPING
	·Ε	-รัไฟไ	ir	SHOWN	BIRD	EAGLE. BALD
	ΉE	ELAIN	E	K.NOWN	BIRD	CRANE, WHOOPING
	ŧΕ	FLAIM	E	RNOWN	BIRD	EAGLE, BALD
	'nΞ	30% B		KNOWN	BIRD	CRANE. WHOOPING
	45	EDX B		KNOWN	BIRD	EAGLE. BALD
	·iΕ	EGALE	UTTE	FOSSIBLE	MAMMAL	FERRET. BLACK-FOOTED
	äΕ	EUX B	ÜTTE	KNOWN	PLANT	PENSTEHON, BLOWOUT
	ΉE	25Y D		KNOWN	BIRD	CRANE. WHOOPING
	٧E	207 D		KNOWN	BIRD	EAGLE, BALD
	ИE	EOYD		POSSIBLE	MANMAL	FERRET, BLACK-FOOTED
	ΙĘ	EDYD		HONN	BIRD	PLOVER, FIFING
	ИE	33Y D		F NOWN	FISH	STURGEON. FALLID
	٧E	F97 0		HOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
	МĘ	EFONN) NOWN	BIRD	CRANE, SHOOFING
	٦E	FOWN		- NOWN	PIRD	EAGLE, SALD
	;ε	IFOWN		HAOWN	SIRD	PLOVER. PIPING
	ıξ	I F D W N		HOWN	BIRD	TERN. INTERIOR (FOPULATION) LEAST
	-:Ε	LUFFA		. NOWN	BIRD	CRANE. WHOOPING
	iΕ	LUFFA		: MOWN	BIRD	EAGLE. EALD
	ΝE	:UFFA		FOSSIBLE		FERRET. BLACK-FOOTED
	ΨE	.JFF#		KNOWN	BIRD	FLOVER. FIPING
	ΝE	SUFFA	ĹŨ	RNOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
	NE	DURT		KNOWN	BIRD	EAGLE, BALD
	ħ,	EURT	_	i.ngiin	FISH	STURGEON, PALLID
	No.	EUTLE		KNOWN	BIRD	EAGLE, SALD
	ΗE	BUTLE		KNOWN	BIRD	PLOVER. FIFING
	ΞE	EUTLE	8.	HOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
	ΝE	CHSS		k.NONN	BIRD	EAGLE, BALD
	NΕ	⊣âS		ANOWN	BIRD	PLOVER, FIPING
	NE	243 5		r NONN	FISH	STURGEON, FALLID
	nE w∈	€н 35		NOWN	BIRD	TERN. INTERIOR (FOPULATION) LEAST
	NE ve	CEDAR		r.NOWN	BIRD	EAGLE. SALD
	NE NE	EDAR		KNOWN	BIRD	FLOVER, FIPING
	_	IEDAR		KNOWN	FISH	STURGEON. PALLID
	NE NE	EDAR		KNOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
	NE	CHASE CHERRI		KNOWN	BIRD	EAGLE, BALD
	NE	CHERRY		KNOWN	BIRD	CRANE, WHOOPING
	NE	HERRY		KNOWN Known	BIRD Plant	EAGLE, BALD
	NE	CHERRY		KNOWN	PLANT	ORCHID. WESTERN PRAIRIE FRINGED PENSTEMON. BLOWOUT
	ΉE	LHERRY		POSSIBLE	SIRD	FLOVER, FIPING
	NE	CLAY		KNOWN	BIRD	
	ïΕ	JLA7		.NOWN	BIRD	CR ane. Wh ooping E ag le. Bald
	NE	COLFA)	:	KNOWN	BIRD	EAGLE. BALD
	ΝE	COLFAX		A nown	BIRD	PLOVER. PIPING
	hΕ	COLFA)		KNOWN	BIRD	TERN, INTERIOR (FOPULATION) LEAST
	ΝE	CUMING		KNOWN	BIRD	PLOVER. FIPING
	NE	JUMING		RNOWN	BIRD	
	٧٣	CUSTER	}	FNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST CRAME, WHOOPING
	N.	CUSTER		KNOWN	BIRD	EAGLE, SALD
	ΝE	CUSTER		KNOWN	BIRD	PLOVER. PIPING
	NE	CUSTER		KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
	ΗE	IAKOTA		KNOWN	FISH	STURGEON. PALLID
	NE	SAWES	•	KNOWN	BIRD	EAGLE. BALD
	NE	DAWSON		KNOWN	BIRD	CRANE, WHOOPING
,						
,	NE	DAMSON		KNOWN	BIRD	EAGLE. BALD

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NE	DEVEL	K nonn	RIRD	CRANE. WHOOPING
NE	DEUEL	KNOWN	BIRD	EAGLE. EALD
ЯĒ	IEUEL	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
NE	DIXON	KNOWN	BIRD	PLOVER, PIPING
٩E	DIXON	KNOWN	FISH	STURGEON, FALLID
۸E	CIXON	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
1	ODGE	KNOWN	BIRD	PLOVER, PIPING
ΝE	CODGE	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
iΕ	2 0UGL HS	KNOWN	BIRD	EAGLE. EALD
NE	GOUGLAS	I.NOWN	BIRD	PLOVER. PIPING
ΨE	JCU6LAS	KNOWN	FISH	STURGEON, FALLID
äΕ	BOUGLAS	LNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
	DOODENS	NWOWN		
ΝE	BUNDY	KNOWN	BIRD	CRANE, WHOOPING
ΝE	BUNDY	LMOUN		EAGLE, BALD
	JUNUT	KNOWN	BIRD	CHOLE, SHLV
ΗE	FRANKLIN	KNOWN	BIRD	CRANE, WHOOPING
ЖE	CORMULTA			TARE DAIR
	FRANKLIN	KNOWN	BIRD	EAGLE, BALD
Æ	FRONTIER	KNOWN	BIRD	CRANE, WHOOPING
ΉE				
	FRONTIER	KNOWN	BIRD	EAGLE, BALD
ίE	FURNAS	KNOWN	BIRD	CRANE. WHOOPING
λĒ	FURNAS	KNOWN	BIRD	EAGLE. SALD
ŧΕ	GAGE	K.NOWN	BIRD	EAGLE. BALD
иE	GARDEN	KNOWN	BIRD	CRANE. WHOOPING
ıΕ	SARDEN	k nown	BIRD	EAGLE. BALD
٤E	BARDEN	KNOWN	FLANT	PENSTEHON. GLOWOUT
:E	SHRFIELD	: HOWN	BIRD	CRANE, WHOOPING
ΞE	GOSPER	KNOWN	BIRD	CRANE, WHOOPING
ίE	EOSPER	KNOWN	BIRD	EAGLE, PALD
äΕ	GOSPER	K nown	FIRD	PLOYER, FIPING
ΞE	GOSPER	NOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
NE	GRANT	KNOWN	BIRD	CRANE, WHOOPING
ΗE	GREELEY	KNOWN	BIRD	CRANE, WHOOPING
				•
H '	TREELEY	KNOWN	BIRD	EAGLE. BALD
ΝE	HALL	KNOWN	BIRD	CRANE, WHOOPING
ΝE	HALL	KNOWN	PLANT	ORCHID, WESTERN PRAIRIE FRINGED
ΝE	HALL	KNOWN	BIRD	PLOVER, PIPING
				- •
NE	HALL	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
äΕ	HAMILTON	KNOWN	BIRD	PLOVER. FIPING
йE	HAMILTON	LNOWN	BIRD	TERN. INTERIOR (FOPULATION) LEAST
ŧΕ	HARLAN	KNOWN	BIRD	CRANE, WHOOPING
ΉE	-ARLAN	KNOWN	BIRD	EAGLE, SALD
۸E	HATES	KNOWN	BIRD	CRANE, WHOOPINS
ΝE	HITCHCOCK	KNONN	BIRD	CRANE, WHOOPING
٩E	HITCHCOCK	KNOWN	BIRD	EAGLE, BALD
NE	HOLT	KNOWN	BIRD	CRANE, WHOOFING
÷ίΕ	HOLT	KNOWN	BIRD	EAGLE, PALD
ΗE				PLOVER. FIFING
	HOLT	KNONN	BIRD	·-· •
äΕ	HOLT	k nown	BIRD	TERN. INTERIOR (POPULATION) LEAST
ΝE	HOOKER	KNOWN	BIRD	CRÂNE, WHOOPING
NE	¬O GKE R	KNOWN	FLANT	PENSTEMON, BLOWDUT
NE	HOWARD	KNOWN	BIRD	CRANE, WHOOFING
ΝE	≒∂WARD	k nown	BIRD	EAGLE, BALD
ŃΕ	HOWARD	KNOWN	BIRD	PLOVER. FIPING
				•
ΝE	HOWARD	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
ИE	LEARNEY	KNOWN	BIRD	CRANE. WHOOPING
				·
ΝE	KEARNEY	KNOWN	BIRD	EAGLE, BALD
ΝE	EARNEY	KNOWN	BIRD	PLOVER, PIPING
٧F	'EARNEY	k nown	BIRD	TERN, INTERIOR (POPULATION) LEAST
NE	EITH	KNOWN	BIRD	EAGLE. BALD
	•			
rίΕ	KEITH	k nown	BIRB	FLOVER. PIPING
ĦΕ	HEITH	K nown	BIRD	TERN, INTERIOR (FOPULATION) LEAST
ME	EYA PAHA	Known	BIRD	CRANE, WHOOPING
NE	REYA PAHA	KNOWN	BIRD	EAGLE, BALD
		KNOWN		·
ЖE		: =:: = ×	BIRD	PLOVER, PIPING
	EYA PAHA			
ΝE	KEYA PAHA	KNOWN		TERN, INTERIOR (POPULATION) LEAST
	KEYA PAHA	KNOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
NE NE				

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٧E	ANOX	KNOWN	FISH	STURGEON, PALLID
NE	: NOX	K nown	BIRD	TERN, INTERIOR (POPULATION) LEAST
ЯЕ	LANCASTER	known	PLANT	ORCHID. WESTERN PRAIRIE FRINGED
NE	LINCOLN	K nown	BIRD	CRANE. WHOOPING
ИE	LINCOLN -	KNOWN	BIRD	EAGLE, BALD
ΞE	LINCOLN	POSSIBLE	BIRD	PLOVER, FIFING
	INCOLN	POSSIBLE	BIRD	TERN, INTERIOR (POPULATION) LEAST
NE	LOGAN	KNOWN	BIRD	CRANE, WHOOPING
		KNOWN	BIRD	CRANE. #HOOPING
ΙE	LOUP			
ME	LOUP	KNOWN	BIRD	EAGLE, SALD
45	MADISON	KNOWN	BIRD	PLOVER, PIPING
NE	HAD I SON	KNOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
٧E	MCPHEARSON	KNOWN	BIRD	CRANE, WHOOPING
иE	HERRICK	KNOWN	BIRD	PLOVER, PIPING
·ŧΕ	HERRICK	KNOWN	BIRD	TERN. INTERIOR (FOPULATION) LEAST
ИE	MORRILL	KNOWN	3IRD	EAGLE. BALD
NE	MORRILL	KNOWN	PLANT	PENSTEMON, BLOWOUT
NE	HANCE	KNOWN	SIRD	EAGLE, BALD
		KNOWN	BIRD	PLOVER. FIFING
ΉE	MANCE			
ΫĒ	MANCE	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
ЖE	::EMAHA	KNOWN	FISH	STURGEON, PALLID
ıΕ	MACKOFFE	KNOWN	5IRD	CRANE, WHOOPING
Æ	#UCKOLLS	RNOWN	BIRD	EAGLE, BALD
٦E	9 70E	KNOWN	SIRD	EAGLE. EALD
·Ε	ET OE	· NOWN	FISH	STURGEON, FALLID
Ξ.	FERKINS	KNOWN	āIRD	CRANE. WHOOPING
35.	PERKINS	POSSIBLE	BIRD	EAGLE, BALD
٦Ē	FHELPS	KNOWN	SIRD	CRANE. WHOOPING
ΗE	FHELFS	KNOWN	BIRD	EAGLE. BALD
NE	PHELPS	POSSIBLE	dAMMAL	FERRET, BLACK-FOOTED
NE	PHELPS	KNOWN	BIRD	PLOYER, PIPING
H"	HELPS	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
NE	FLATTE	KNOWN	BIRD	EAGLE, BALD
ИE	FLATTE	KNOWN	BIRD	PLOVER, PIPING
ΝE	FLATTE	KNOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
ΝE	FJLK	KNOWN	BIRD	EAGLE. BALD
NE	FOLK	KNOWN	BIRD	PLOVER, PIPING
NE	Falk	ANOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
.48	FED WILLOW	NOWN	BIRD	CRANE, WHOOPING
ιiΕ	SED WILLOW	KNOWN	BIRD	EAGLE, BALD
ΝE	SED WILLOW	POSSIBLE	HAMMAL	FERRET. BLACK-FOOTED
NE	RICHARDSON	KNOWN	BIRD	EAGLE. BALD
ИE	FICHARDSON	KNOWN	FISH	STURGEON, PALLID
			SIRD	CRANE, WHOOPING
ΝE	ROCK	KNOWN		
NE	ROCK	KNOWN	BIRD	EAGLE, BALD
λE	ROCK	KNOKN	BIRD	PLOVER, PIPING
ΝE	# OCK	KNOWN	PIRD	TERN, INTERIOR (POPULATION) LEAST
NE	SARPY	KNOWN	BIRD	EAGLE, BALD
ΝE	EARPY	KNOWN	BIRD	FLOVER, FIPING
ΝE	SARPY	KNOWN	FISH	STURGEON, PALLID
NE	SARPY	KNOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
NE	SAUNDERS	KNOWN	BIRD	EAGLE, BALD
NE	SAUNDERS	KNOWN	BIRD	PLOVER, PIPING
NE	SAUNDERS	KNOWN	BIRD	TERN, INTERIOR (POPULATION) LEAST
HΕ	SCOTTS PLUFF	KNOWN	BIRD	CRANE, WHOOPING
NE		KNOWN	BIRD	
NF	SCOTTS BLUFF			EAGLE. BALD
	COTTTS BLUFF	POSSIBLE	HAMMAL	FERRET, BLACK-FOOTED
NE.	JEWARD	KNOWN	SIRD	EAGLE, BALD
٠iE	EEWARD	KNOWN	PLANT	ORCHID, WESTERN PRAIRIE FRINGED
NE	EHERIDAN	KNOWN	BIRD	CRANE, WHOOPING
ЯE	SHERIDAN	KNOWN	BIRD	EAGLE, BALD
ИE	SHERIDAN	POSSIBLE	HANNAL	FERRET, BLACK-FOOTED
NE	SHERIDAN	K nown	PLANT	PENSTENON, BLOWOUT
NE	SHERHAN	KNOWN	BIRD	CRANE. WHOOPING
ME	THERMAN	∧ MURT	neron	CACI C DAI R

				CONTRACT TO ANY CONTEN
ΝE	SHERMAN	POSSIBLE	Hammal	FERRET. BLACK-FOOTED
NE	SHERMAN	KNOWN	BIRD	PLOVER. PIPING
NE	SHERMAN	KNOWN	BIRD	TERN. INTERIOR (POPULATION) LEAST
HE	SIOUX	KNOWN	BIRD	CRANE. WHOOPING
NE	SIOUX	KNOWN	BIRD	EAGLE. BALD
NE	SIDUX	POSSIBLE	MAMMAL	FERRET, BLACK-FOOTED
NE	STANTON	KNOHN		E agl e, Bald
	STANTON	KNOWN		PLOVER. PIPING
	•	KNOWN		TERN, INTERIOR (POPULATION) LEAST
	STANTON	KNOWN		BEETLE, AMERICAN BURYING
	THOMAS	KNOWN		CRANE, WHOOPING
	THOMAS	KNOWN		EAGLE. BALD
NE	THOMAS	KNOWN		EAGLE. BALD
NE.		KNOWN		STURGEON, PALLID
	THURSTON	KNOKKI		CRANE. WHOOPING
NE		KNOWN		EAGLE. BALD
ΝE				
NE	VALLEY	POSSIBLE		PLOVER. PIPING
ΉE		KNOWN		Cummana (mamin arrell) 12327
NE	VALLEY	KNOWN		EAGLE. BALD
ЯE	Washington	KNOWN		
ΝE	HASHINGTON	KNOWN		CRAME. WHOOPING
48	HEBSTER	KNOWN		•
άE	WEBSTER	KNOMN		EAGLE. BALD
¥ξ	HEBSTER		Hammal	FERRET, BLACK-FOOTED
ΝĒ		KNOWN		CRANE. WHOOPING
NE	HEELER	K nown	BIRD	EAGLE. BALD

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REGION VII THREATENED AND ENDANGERED ANIMAL SPECIES BY STATE AND COUNTY OF OCCURRENCE

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THREATENED AND ENDANGERED ANIMAL SPECIES OF TOWN BY COUNTY

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SCIENTIFIC NAME	COMMON NAME	STATUS CODE	WETLAND TYPES	SUBSTRATE	ENDCAUSE
** COUNTY: ALLAMAKEE ACCIPENSER FULVESCENS (RAFINESQUE)	LAKE STURGEON	E1,EM,TH	R2UB,R2OH, L1UB,R2RB	2,3,6,7	3,4,5
APHREDODERUS SAYANUS	PIRATE PERCH	SI	RSUB, LIAB, RSAB	2,3,8,9	
BUTED LINEATUS	RED-SHOULDERED HAMK	El	PFO		
ETHEOSTOMA CHLOROSOMUM (HAY)	BLUNTHOSE DARTER	El	RSUB	2,8,9	4
EUPHYDRAS PHAETON	BALTIMORE	11	PEH, PSS		1,2,3
NALTAEETUS LEUCOCEPHALUS	BALD EAGLE	EF1,EFK,EFM,	L10w,PFO,R		1,2,3
		EFN	208,L2U\$,L		_
1CTHYCHYZON CASTANEUS	CHESTNUT LAMPREY	TI,EK	RZUB,R3UB, L1UB	2,3,9	3
LAMPSILIS HIGGINSI (LEA)	HIGGINS EYE	EF1,EFM, E FN	RŽUB		1,3,4
LUTRA CANADENSIS	RIVER OTTER	T1, MM, EN	RZUS,RZUB, RZAB,R S UB, L1UB	2,3,6,8	3,4,5
HECTURUS MACULOSUS	MUDPUPPY	El	R2UB,R3UB, L1AB,L2EM	1,2,6,7	3
NOTROPIS TEXAMUS (GIRARD)	WEED SHINER	EI	RSUB, R2UB	2	3
RALLUS ELEGANS	KING RAIL	E1,EM	PEM,RZEM,L 2UB,PAB		3
** COUNTY: APPANOOSE					4.0.7
HALTAEETUS LEUCOCEPHALUS	BALD EAGLE	EF1,EFK,EFM, BFM	l10M,Pf0,R 20M,L2EM,L 2UM,L2US,L		1,2,3
MYOTIS SODALIS	INDIANA BAT	EF1,EFH	PFO		1,3
ŘANÁ ÁRÉDLATÁ	CHAUFTSH FROG	89	RSUD RBUS,	8	\$ 1

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THREATENED AND ENDANGERED ANIMAL SPECIES OF KANSAS BY COUNTY

SCIENTIFIC NAME	COMMON NAME	STATUS CODE	HETLAND TYPES	SUBSTRATE	ENDCAUSE
** COUNTY: ALLEN HETERODON PLATIRHINOS LATREILLE HOTURUS PLACIDUS (TAYLOR)	EASTERN HOGNOSE SNAKE NEOSHO MADTOM	IK Tek,Tem	PSS,PEM R3UB,R2UB	2,4 5,6,7	3
** COUNTY: ANDERSON NOCOMIS BIGUITATUS (KIRILAND)	HORNEYHEAD CHUB	īκ	R3UB,R3AB	6,7	3,4
** COUNTY: ATCHISON ICTHYOMYSON CASTANEUS	CHESTHUT LAMPREY	11,EK	82U8,83U8, £1U8	2,3,9	3
POMATIOPSIS LAPIDARIA SCAPHIRHYNCHUS ALBUS (FORBES AND RICHARDSON)	AMPHIBIOUS SNAIL PALLID STURGEON	EK BFI,EFK,EFM, EFN	82U8,82OM	2,3,6	3,4,5
** COUNTY: BARBER					
ETHEOSTOMA CRAGINI (GILBERT)	ARKANSAS DARTER	1K,RM	RBUB, RBAB	2,3,6	3
GRUS AMERICANA	WHOOPING CRANE	EFK, EFN	R2U 0,L2UB, PUB,L2AB,P EM	2,8	1,3,4,5
HETERODOM PLATIRHINOS LATREILLE	EASTERN HOGHOSE SNAKE	ΤK	PSS, PEH	2,4	
HOIROPIS GIRARDI HUBBS AND ORTENBURGER	ARKANSAS RIVER SHIHER	EK	R2UB	2	3
** COUNTY: BARTON					
CHARADRIUS MELODUS	PIPING PLOVER	IFI,TFK,TFM, TFN	RZUS,LZUS, Pub	2	1,3
GRUS AMERICANA	WHOOPING CRANE	EFK',EFN	R2UB,L2UB, PUB,L2AB,P EM	2,8	1,3,4,5
HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	EFI,EFK,EFM,	L10M,PFO,R		1,2,3

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THREATENED AND ENDANGERED ANIMAL SPECIES OF MISSOURI BY COUNTY

SCIENTIFIC NAME	COMMON NAME	STATUS CODE	WETLAND TYPES	SUBSTRATE	ENDCAUSE
** COUNTY:	OLATIC VILLEGE	RM	R3U8_R2U8	2,6	
FUNDULUS ZEBRINUS (JORDAN AND GILBERT) PLETHOBASUS CYPHYUS (RAFINESQUE)	PLAINS KILLIFISH SHREPHOSE	EM	R3UB,R2UB, R3R8	3,6,7	
** COUNTY: ADAIR					
ANODONTA SUBORBICULATA (SAY)	FLAT FLOATER	EM, EK	R2UB,L1UB	3,8	
HYBOGNATHUS HANKENSONE	BRASSY MINNOW	RM	R3UB	2,6,9	3
RAMA AREOLATA CTRCULOSA (RICE AND DAVIS)	NORTHERN CRAWFISH FROG	TK, MH	LZAB,R4US, R4AB,PEM		3
** COUNTY: ANDREW					
ELAPHE VULPINA VULPINA (BAIRD AND GIRARD)	MESTERN FOX SNAKE	EM	PEM,PAB,R2 EM,R2AB,PF O		3
HAL TAEETUS LEUCOCEPHALUS	BALD EAGLE	EFI,EFK,EFM, E FN	L 10W,PFD,R 20W,LZEM,L 2UB,L2US,L		1,2,3
HYBOPSIS GRACILIS (RICHARDSON)	FLATHEAD CHUB	TK,EN	R3UB , R2UB	2	3
SCAPHIRHYNCHUS ALBUS (FORBES AND RICHARDSON)		EF1,EFK,EFM, EFN	RZUB , RZOW	2,3,6	3,4,5
SISTRURUS CATENATUS TERGIMINUS	WESTERN MASSASAUGA	EM	PEN, PAB, RZ EN, RZAB		3
** COUNTY: ATCHESON					
ACCIPENSER FULVESCENS (RAFINESQUE)	LAKE STURGEON	EI,EM, TN	r2ub,r2ou, L1ub,r2rb	2,3,6,7	3,4,5
ELAPHE VULPINA VULPINA (BAIRD AND GIRARD)	WESTERN FOX SNAKE	EM	pen,pab,r2 En,r 2 ab,pf		2



THREATENED AN ANGERED ANIMAL SPECIES OF NEGRASKA BY COUNTY

SCIENTIFIC NAME	COMMON NAME	STATUS CODE	WEILAND Types	SUBSTRATE	ENDCAUSE
** COUNTY: ADAMS GRUS AMERICANA	WHOOPING CRANE	EFK,EFN	R2UB,L2UB, PUB,L2AB,P EN	2,8	1,3,4,5
HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	EFI,EFK,EFM, EFN	L 10W, PFO, R 20W, L 2EM, L 2UB, L 2US, L		1,2,3
** COUNTY: ARTHUR GRUS AMERICANA	MHOOPING CRANE	EFK,EFN	R2UB,L2UB, PUB,L2AB,P EN	2,8	1,3,4,5
HALJAEETUS LEUCOCEPHALUS	BALD EAGLE	EFI,EFK,EFM, E FN	L 10M, PFO, R 20M, L 2EM, L 2UB, L 2US, L		1,2,3
** COUNTY: BLAINE GRUS AMERICANA	WHOOPING CRANE	EFK,EFN	R2UB,L2UB, PUB,L2AB,P EN	2,8	1,3,4,5
HALTAEETUS LEUCOCEPHALUS	BALD EAGLE	EFI,EFK.EFM, EFN	L10W,PFO,R 20W,L2EM,L 2UB,L2US,L		1,2,3
** COUNTY: BOX BUTTE GRUS AMERICANA	WHOOPING CRANE	EFK,EFN	R2U8,L2U8, PUB,L2AB,P EM	2,8	1,3,4,5
HALIAEETUS LEUCOCEPHALUS	BALD EAGLE	EFI,EFK,EFM,	L10W,PFO,R		1,2,3

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REGION VII THREATENED AND ENDANGERED PLANT SPECIES BY STATE AND COUNTY OF OCCURRENCE

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(COMMON MANE	STATUS CODE	WEȚĻAND TYPE\$	SUBSTRATE	ENDCAUSE
SCIENTIFIC NAME	COMMON NAME				
** COUNTY: ANDREW HYPERICUM PYRANIDATUM AIT.	GREAT ST.JOHH'S-WORT	EM,RK	PEN	3, 5	3
** COUNTY: ATCHISON	COARCE CHARLICED	UH	PEN		
IVA XANTHIFOLIA LYSIMACHIA THYRSIFLORA (L.) PERS.	COARSE SUMPWEED TUFTED OR WATER LOOSESTRIFE	EM	PEN,PAB,PF Q		
PLATANTHERA PRAECLARA SHEVIAK & BOMLES	WESTERN PRAIRIE FRINGED ORCHID	TEM,TEN,TEK, Tel	PEN	3,4	3
** COUNTY: BARRY		EN	R3RS,R3US		
FONTINALIS SULLIVANTII LINDB.	A HOS\$	EN	LZEN, PEN, R	2	
JUNCUS NODUSUS L.	KNOTTED RUSH	En	3US,PUS		
PLATANTHERA CLAVELLATA (MICHX.) SPRENG. VAR	. GREEN WOODLAND ORCHID	EN	PEM, PFO		
CLAVELLATA TRADESCANTIA OZARKANA ANDERSON & HOODSON	OZARK SPIDERWORT	RM	PFO	5	
** COUNTY: BARTON		UN	PEN_PFO	2	
CAREX ALBOLUTESCENS SCHWEINITZ	GREENISH-WHITE SEDGE	UN	PEN	5	
CAREX MICRODONTA TORR. 8 HOCK	LITTLE MOUTH SEDGE	UN	PEN, PFO		
CAREX STRAMINEA WILD.	STRAW SEDGE	EN	PEN, PFO		
CHELONE OBLIQUA L. VAR. SPECIOSA	ROSE TURTLEHEAD	UH,RK	PEN, LZEN	2	
ELECCHARIS LANCECLATA FERNALD	LANCE-LIKE SPIKE RUSH	RM	LZUS,LZEN,	2,8	
ELEOCHARIS PARVULA (R. & S.) LIHK VAR.	SMALL SPIKE RUSH		PEN		
ANACHAETA	CLOSED GENTIAN	EM	PFO,LZEH,P		
GENTIANA ANDREWSII GRISEB. VAR. ANDREWSII	CLOSED GENTIAN		EH,PSS		
	HAIRY WATER-CLOVER	ON	LZEM		
MARSILEA MUCRONATA A. BRAUN	MIDBANK PASPALLM	EM	L2US, PEM, R	8	
PASPALUM DISSECTUM L.	And Street A Line Libert		JUS, LZEM		
PILULARIA AMERICANA A. BRALM	AMERICAN PILLWORT	RM,RK	lzen,lzab, Pem	2	

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THREATENED AND ENDANGERED PLANT SPECIES OF KANSAS BY COUNTY

SCIENTIFIC NAME	СОННОН НАМЕ	STATUS	WETLAND TYPES	SUBSTRATÉ	ENDCAUSE
** COUNTY: ALLEN CAREN TRIANGULARIS BOECKL. SAGITTARIA AMBIGUA Ĵ.G.SM.	TRIANGULAR SEDGE KANSAS ARROMEAD	EM,RK EM,RK	, 200,000	4 8	
** COUNTY: ATCHISON ALOPECURUS AEQUALIS SOBOL. CAREX AQUATILIS WANLENB. VAR. ALTIOR (RYDB.)	FLOATING FOXTAIL GRASS WATER SEDGE	RH,RK RK	LZEN, PEN PEN	3	
FERN. PLATANTHERA PRAECLARA SHEVIAK & BOWLES	WESTERN PRAIRIE FRINGED ORCHID	TEM, TEN, TEK, TEI	PEH	3,4	3
** COUNTY: CHEROKEE CAREX TRIANGULARIS BOECKL. ELEOCHARIS LANCEOLATA FERNALD ELEOCHARIS WOLFII GRAY	TRIANGULAR SEDGE LANCE-LIKE SPIKE RUSH WOLF'S SPIKE RUSH	EM,RK EM,RK EM,PK	PEM,PFO PEM,LZEM R3US,PEM,L ZEM		
LINHOSCIADIUM PINNATUM (DC.) MATHIAS & CONSTANCE	DOG-SHADE TANSY OR PINNATE DOGSHADE	EM,RK EM,RK	PEM,PRB,LZ EN R3US,PEM,I FQ		
MECARDONIA ACUMINATA (WALT.) SMALL RHYNCHOSPORA HARVEYEI BOOTT URTICA CHAMAEDRYOIDES PURSH	HARVEY'S BEAK-RUSH WEAK METILE	EH,RK RM,PK	PEN PFO,PEM	0,2,3,5 3,5	
** COUNTY: CHEYENNE LEMNA TRISULCA L.	STAR DUCKWEED	RM,RK	PAB, L104, 3AB, L2EN	R .	
** COUNTY: CLOUD SPIRANTHES LUCIDA (H. H. EATON) AMES	VELLOW LIPPED OR SHINING LADIES' TRESSES	EI,RK	PEM, PRB, I US		
** COUNTY: COFFEY RHYNCHOSPORA NARVEYE! BOOTT	NARVEY'S BEAK-RUSH	em,rk	PEN	0,2,3,5	

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THREATENED AND ENDANGERED PLANT SPECIES OF MEBRASKA BY COUNTY

SCIENTIFIC NAME	CONMON NAME	STATUS CODE	WETLAND TYPES	SUBSTRATE	ENDCAUSE
** COUNTY: CHERRY PLATANTNERA PRAECLARA SHEVIAK & BOWLES	WESTERN PRAIRIE FRINGED ORCHID	TFM,TFM,TFK, 1F1	PEM	3,4	3
** COUNTY: HALL PLATANTHERA PRAECLARA SHEVIAK & BOWLES	WESTERN PRAIRIE FRINGED ORCHID	TFM,TFN,TFK, TF3	PEM	3,4	3
** COUNTY: LANCASTER PLATANTHERA PRAECLARA SHEVIAK & BOALES	VESTERN PRAIRIE FRINGED ORCHID	TEM, TEN, TEK, TET	PEH	3,4	3
** COUNTY: SEMARD PLATANTHERA PRAECLARA SHEVIAK & BOWLES	WESTERN PRAIRIE FRINGED ORCHID	TEM, TEN, TEK,	PEN	3,4	3

SUMMARY OF KNOWN HABITAT USAGE BY SUBSTRATE AND ASSOCIATED NWI HABITAT TYPE

FIPS CODE COUNTY NAME

FIPS CODES FOR REGION VII, EPA

STATE

** **STA	TE: IA	
19001	ADAIR	IA
19003	ADAMS	IA
19005	ALLAMAKEE	IA
19007	APPANOOSE	IÀ
19009	AUDUBON	IA
19011	BENTON	IA
19013	BLACK HAWK	IA
19015	BOONE	IA
19017	BREMER	. IA
19019	BUCHANAN	IA
19021	BUENA VISTA	IA
19023	BUTLER	IA IA
19025	CALHOUN	IA IA
19027	CARROLL	IA IA
19029	CASS	IA
19031	CEDAR	IA IA
19033	CERRO GORDO	IA
19035	CHEROKEE	IA
19037	CHICKASAW	IA
19039	CLARKE	IA
19041	CLAY	IA
19043	CLAYTON	IA
19045	CLINTON	IA
19047	CRAWFORD	IA
19049	DALLAS	IA
19051	DAVIS	IA
19053	DECATUR	IA
19055	DELAWARE	ĪÀ
19057	DES MOINES DICKINSON	ĪĀ
19059	_ _	ĪÀ
19061	DUBUQUE Emmet	IA
19063 19065	FAYETTE	IA
19067	FLOYD	IA
19069	FRANKLIN	IA
_ 19071	FREMONT	IA
19073	GREENE	IA
19075	GRUNDY	IA
19077	GUTHRIE	IA
19079	HAMILTON	IĄ
19081	HANCOCK	IA
19083	HARDIN	IA
19085	HARRISON	IA
19087	HENRY	IA
		

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CODE DEFINITION
CODE
** ASSOCIATED STATUS CODES
            FEDERALLY LISTED ENDANGERED, IOWA
EFI
           FEDERALLY LISTED ENDANGERED, KANSAS
FEDERALLY LISTED ENDANGERED, MISSOURI
FEDERALLY LISTED ENDANGERED, NEBRASKA
EFK
EFM
EFN
            ENDANGERED, IOWA
EI
            ENDANGERED, KANSAS
EK
            ENDANGERED, MISSOURI
EM
            ENDANGERED, NEBRASKA
EN
          NO LONGER LISTED FOR MISSOURI (PRESUMED RECOVERED)
OM
            RARE, MISSOURI
RM
            SPECIES OF SPECIAL CONCERN, IOWA
SI
            FEDERALLY LISTED THREATENED, IOWA
TFI
            FEDERALLY LISTED THREATENED, KANSAS
TFK
            FEDERALLY LISTED THREATENED, MISSOURI
TFM
            FEDERALLY LISTED THREATENED, NEBRASKA
TFN
            THREATENED, IOWA
TI
            THREATENED, KANSAS
THREATENED, NEBRASKA
TK
TN
            UNDETERMINED, MISSOURI
UM
             WATCH LIST, MISSOURI
WM
             EXTIRPATED, MISSOURI (MAY BE A MIGRANT SPECIE)
XM
    ASSOCIATED SUBSTRATE
 **
             CLAY
 0
             BEDROCK
 1
             SAND
 2
             SILT
 3
             LOAM
 4
             LIMESTONE
 5
             COBBLE-GRAVEL
 6
             RUBBLE-BOULDER
 7
             MUD
 8
             ORGANIC MUCK-DEBRIS
 9
             CHERT
 X
    ASSOCIATED VEGETATION
 **
             ALGAL
 A
             AQUATIC MOSS
 В
             ROOTED VASCULAR
 C
             FLOATING VASCULAR
 D
             UNKNOWN SUBMERGENT
 E
             DECIDUOUS
 F
            EVERGREEN
 G
            DEAD
 H
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CODES USED IN TEEPLANT. DBF AND TEEANIML. DBF

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CODES USED IN TEEPLANT. DBF AND TEEANIML. DBF
          CODE DEFINITION
CODE
           PERSISTENT
I
           NONPERSISTENT
           MOSS
M
    DECLINE, REASONS FOR (ENDCAUSE)
           PESTICIDE USE
1
           HERBICIDE USE
2
           HABITAT DESTRUCTION (INCLUDING ALTERATION IN WATER
3
           FLOW)
           WATER POLLUTION (INCLUDING SILTATION)
4
           OVER FISHING, HUNTING, OVER UTILIZATION
5
           OVER PICKING
6
    FLOWER COLOR (FLOCOLOR)
**
           APETALOUS OR NONE PRESENT
Α
           BROWN, REDDISH-BROWN, OR YELLOW-BROWN
В
           BROWNISH
BR
           BLUE, VIOLET, OR PINK
BVP
           BROWN TO YELLOW BROWN
BYB
           CREAMY WHITE OR YELLOWISH
CY
           GREEN
G
           GREENISH-BROWN OR BROWNISH
GB
           GREENISH-BROWN OR GRAYISH
GBD
GBG
           GREEN TO BROWNISH GREEN
           GREENISH-BROWN OR YELLOWISH BROWN
GBY
           GREENISH
GH
           GREENISH TO REDDISH BROWN
GRB
           GREEN TO BROWN
GTB
           GREENISH-WHITE
GW
            GREENISH YELLOW
GY
            GREEN TO YELLOW-GREEN
GYG
           NON-FLOWERING PLANT
N
0
            ORANGE
            OLIVE GREEN
OG
            ORANGE OR YELLOW
OY
            PINK OR ROSE
P
PB
            PURPLISH BROWN
            PINK, ROSE, OR RED
PR
            PINK, ROSE, OR WHITE
PRW
 PU
            PURPLISH
            PINK OR PURPLISH
 PV
 PW
            PINK OR WHITE
R
            RED
RV
            RED-PURPLE
            VIOLET, PURPLE, BLUE, OR LAVENDER
 VG
            GREENISH-PURPLE
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APPENDIX A.3

ECONOMICALLY SENSITIVE AREAS

Economically Sensitive Areas are currently being interpreted as locations of surface water intakes. Following, is a complete listing of surface water intakes in Iowa, Kansas, Missouri, and Nebraska. Updates of these list have been requested and will be incorporated into this appendix. There is also a listing of the River Water Intakes on the Missouri and Mississippi Rivers that follows the State listings.

APPENDIX A.3.a

REGION VII SURFACE WATER INTAKES

UTM COORDINATES FOR MUNICIPAL SURFACE WATER INTAKES IN IOWA (UTM ZONE 15)

PUBLIC WATER SUPPLY	SOURCE	X-COORD	Y-COORD	PERMIT #
CEDAR RAPIDS	CEDAR R	608452.00	4650991.00	1346
CLEAR LAKE	CLEAR L	468585.00		3315
HUMBOLDT	SPRING 1	399767.70		3388
HUMBOLDT HUMBOLDT SPENCER ROCK RAPIDS	SPRING 2			3388
SPENCER	GRAVEL PIT		4780096.00	103
ROCK RAPIDS	ROCK R		4814631.00	3222
ORIENT	L ORIENT		4561344.00	2637
ARNOLDS PARK	W OKOBOJI	325986.60	4805547.00	5 55 7
WAHPETON	W OKOBOJI		4806109.00	2994
MILFORD	W OKOBOJI		4801959.00	2994 278
SPIRIT LAKE	SPIRIT L		4812628.00	
LAKE PARK GREENFIELD GREENFIELD GREENFIELD	SILVER L		4812890.00	
GREENFIELD	GREENFLD L		4572723.00	
GREENFIELD	NODAWAY L			2218
GREENFIELD	NODAWAY R			2218
CORNING	L BINDER	356249.60		
CORNING	CITY RES	354729.40	- · · · · · · · · · · · · · · · · · · ·	1674
PANORA	MID RAC R			1674
BARTLETT HILLS ASSOC	RESERVOIR			63 0 7
CLARINDA	NODAWAY R			3335
COUNCIL BLUFFS	MISSOURI R			102
MOUNT AYR	PLATTE R	381422.70		6055
MOUNT AYR	LOCH AYR			6136
MOUNT AYR	OLD RESERV			6136
SUN VALLEY LAKE RWA	SUN VALY L			6136
BEDFORD	L 3 FIRES			4925
BEDFORD BEDFORD	RESERVOIR	357198.40		2684
BEDFORD	QUARRY	355238.30		2684
BEDFORD	102 R	355911.50		2684
LENOX	EAST L	355200.40		2684
LENOX	WEST L	369436.10		
LENOX	MAHARRY L	369101.00		2647
AFTON	GRAVEL PIT			
AFTON	L AFTON			199
CRESTON	SITE M-1	398256.30		199
CRESTON	SUMMIT L			
CENTERVILLE	COOPER CR	382578.80		5649
CENTERVILLE	LOWER RES		4508782.00	
CENTERVILLE	UPPER RES			1359
RATHBUN RWA	L RATHBUN			1359
OSCEOLA	WEST L	432364.80		3 663
LAKEVIEW HEIGHTS HOA	RESERVOIR	433413.80		142
LAMONI	HOME L	419818.40		2930 6 36 9
LAMONI	HOME POND			6 369
LAMONI	L LASHANE	417501.80		6 369
LEON	LITTLE R	434252.10		1701
WINTERSET	CEDAR L	416619.40		2099
PELLA	DES MOIN R			28 95
ALBIA	RESERVOIR	515311.10		6370
DES MOINES	RACCOON R	445848.70		
MONTEZUMA	DIAMOND L	536999.60	4602543.00	5 035
MONTEZUMA	L PONDEROS	534974.60	4603446.00	6218
LINEVILLE	RESERVOIR	456827.60	4603022.00	6218
CORYDON	CORYDON L	471981.20	4494320.00	3270
HUMESTON	HUMESTON L			3 528
	HUMESTUN L	457310.60	4525569.00	6223

UTM COORDINATES FOR MUNICIPAL SURFACE WATER INTAKES IN IOWA (UTM ZONE 15)

PUBLIC WATER SUPPLY	SOURCE	X-COORD	Y-COORD	PERMIT #
BLOOMFIELD	L FISHER	547111.40	4512012.00	6084
BURLINGTON	MISS R	660393.40	4520410.00	5801
MOUNT PLEASANT	SKUNK R	616054.80	4532472.00	2674
FAIRFIELD	RESERV 2	588383.30	4541763.00	1691
FAIRFIELD	WALTON L	589613.60	4540448.00	1691
FAIRFIELD	RESERV 1	587971.60	4541228.00	1691
IOWA CITY	IOWA R	621637.70	4613341.00	629
UOFI	IOWA R	621493.80	4612646.00	597
KEOKUK	MISS R	636374.30	4471664.00	6040
FORT MADISON	MISS R	644248.40	4498869.00	2169
IOWA-AMERICA WATER CO	MISS R	704430.60	4600014.00	6117
OTTUMWA	BLACK L	549894.80	4539309.00	6 29 2
OTTUMWA	S LAGOON	549040.30	4540201.00	6292
OTTUMWA	DES M R	548940.30	4540643.00	6292
OTTUMWA	n Lagoon	547845.80	4540892.00	6292
DES MOINES	DES M R	446499.80	4607607.00	5 035

4. Kansas Poison Control Centers (continued)

Great Bend	Central Kansas Hedical Center 3515 Broseway Great Bend. KS 67530	(216) 792-2511 (ext. 115)
E275	Hadley Regional Medical Center 201 East 7th Street Hays, KS 67601	(913) 628-8251 (ext. 145)
Kansas City	Mid-America Poison Center University of Kansan 39th & Rainbow Blvd Kansas City, KS 66103	(\$13) 588-6633. (\$00) 332-6633 (Statewide)
Lawrence	Lawrence Hemorial Hospital 325 Maine Street Lawrence, KS 66044	(913) 749-6100 (ext. 162)
Salina	St. John's Hospital 139 North Fenn Street Salina. KS 67401	(\$13) 827-3187
Topeica	Northeast Kansas Poison Center Stormont-Vail Medical Center 1500 SV 10th Street Topera. KS 66604	(§13) 354 -6100
Vichita	Vesley Medical Centur 550 North Hillside Avenue Vichita. KS 67214	(116) 68 8-2277 "

5. Kansas Surince Vater Supplies

TOWN & CONTACT	VATER SOURCE TELEPH	ONE NUMBER
Allen-Admire C	ity City Lake	(316) 528-3413 (CLTY E)
Vater Supply	Sec. 11. TISS. RILE	(316) 528-3234 (Plant)
City Clerk	Lyon County	(316) 518-5545 (Sheriff)
Allen 66833	•	(316) 528-5566 (Mayor)
Alma City	Middle Branch Toth.	(913) 765-3922 (City E)
Vater Supply	to Mill Craek -	(913) 765-3502 (Shop)
City Clerk	Impoundment	(
Alma 66401	NE 1/4, Sec. 26, T125	•
Hax Kraus	RICE, Tabaunsee Co.	(913) 765-3828 (Res)
Altamont City		(316) 784-5612 (City ff)
Supply PYSD #4 City Hall Buil Altamont 67330		(316) 325-2721 (24 hrs)

Y. KANSAS

5. Kansas Surface Water Supplies (continues)

TOWN & CONTACT	VATER SOURCE TELEP	HONE NUMBER
Altoona City Vater Supply City Clerk Altoona 67330	Vertigris River	(316) 568-5415 (City E) (316) 568-2120 (Plant)
Leon Forsyth		(316) 568-5545 (Res)
Anderson County RVD #2 Vestphalia 66093	Impoundment Sec. 36, T21S, R17E Anderson County	(913) 489-2345 (F D)
Atchison City Vater Supply 1125 S. 4th Atchison 66002 Mr. H.D. Cava	Missouri River (Mile 423.3)	(913) 367-3067 (24 hr) (913) 367-4323
Augusta City Vater Supply P. O. Box 489 Augusta 67010	ElDorado Reservoir	(316) 775-6301 (City H) (316) 775-2301 (Plant)
Gary Lofton		(316) 733-4769 (Res)
Rartlett City Vater Supply City Clerk Bartlett 67332	Impoundment Sec. 28. T34S. RZOE Labette County	(316) 226-3333 (City E)
Baxter Springs City Water Suppl City Hall - 11th P.O. Box 577 Baxter Springs 6	6 Park	(316) 856-2112 (Pol) (316) 856-2733 (Plant) (316) 856-2114 (City H)
Beloit City Vater Supply 119 N Hersey Ave Beloit 67420	Solomon River	(913) 738-3551 (City E) (913) 738-2275 (Plant) (913) 738-2203 (Pol)
Blue Mound City -Vater Supply City Hall Blue Mound 66010	City Lake Sec. 7 T225, R22F Linn County	(913) 756-2473 (City Clerk) (913) 756-2209 (Fire Dept)
Bronson City Yater Supply City Clerk Bronson 66715 Terry Johnst	Reservoir Sec. 7, T255, R22P Bourson Co.	(316) 939-4578 (8-12 AM) (316) 939-4793 (Clerk's res) (316) 939-4791 (Mayor's res)

X. KANSAS

5. Kansas Surface Water Supplies (continued)

TOWN & CONTACT WATER SOURCE TIMES	HONE NUMBER
Buffalo City Vater Supply P. 0. Box 122 Buffalo 66717 Buffalo Creek Vater Supply Pits SW 1/4, Sec. 12 TZ7S. R15E. Vilson County	(316) 537-8755 (City Office & Water Plant)
Burlingame City Dragoon Craek Vater Supply City Hall-101 E. Santa Fe Burlingame 66413	(913) 654-2414 (City E) (913) 654-3431 (Plant)
Norman Bloomquist	(913) 654-3988 (Res)
Burlington City Neosno River Vater Supply City Hall-301 Neosno Burlington 66839	(316) 364-5134 (City E) (316) 364-8132 (Plant) (316) 364-2123 (Sheriff)
Burning Tree Villas Impoundment Vater Supply SE 1/4, NE 1/4 Sec. 34 Rurai Route #3 T13S. R27E. Box 201 Johnson Co. Olathe 66061	(913) 884-8488
Caney City Little Caney River Water Supply City Hall. 211 V. 5th Caney 67333 Valter Moore Carol Cohen. City Clerk	(316) 879-2772 (City ff) (316) 879-2141 (Pol) (316) 673-8081 (Supr.) (316) 879-2573 (Clark)
Carbondale City Strowbridge Creek Vater Supply Reservoir City Hall-P. O. Box 70 234 Main Carbondale 66414	(913) 564-7108 (AM hrs) (913) 564-7377 (Pol)
Cadar Vale City Caney River Vater Supply City Hall-Box 117 Cadar Vale 67024 Lavina Blenden, Mayor	(316) 7:3-2244 (City ff) (316) 7:3-2641 (Flant) (316) 7:3-2881 (Res)
Change City Neosno River Vater Supply P. 0. Box 907 Change 66720	(316) 4:1-9300 (City E) (316) 4:1-1910 (24 hrs)
Ralph Berthot Steve Kullic Larry Shepnerd	(316) 421-1910 (316) 421-2840 (316) 431-9306

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5. Kansas Surface Vater Supplies (continued)

TOWN & CONTACT VATER SOURCE TELEPHON	E NUMBER
Cherryvale City Verdigris River Vater Supply City Hall-123 V. Hain Cherryvale 67337	(316) 336-2776 (City E) (316) 336-3161 (Plant) (316) 336-2121 (F D)
Chetopa City Neosno River Vater Supply City Hall-332 Maple P. O. Box 312 Chetopa 67336	(316) 236-7311 (24 hrs) (Pol) (316) 236-7222 (F D)
Coffeyville City Verdigris River Vater Supply Hunicipal Bldg. 7th & Valnut Coffeyville 67337	(316) 251-1700 (24 hrs) (316) 251-7000 (City H) Ext. 259 (Flant) Ext. 276
Council Grove City City Water Supply Lake SV of Council P. O. Box 313 Grove Reservoir Council Grove 66846	(316) 767-5321 (24hrs)
Edna City Water Supply Lake City Clerk Sec. 36, T34S, RISE Edna 67342 Labette County Charles Manley	(316) 922-3841 (City Office after 1:00 p.m.) (316) 922-3290 (Pol) (316) 992-7369 (Plant) (316) 922-3366 (Res)
El Dorado City El Dorado Reservoir Vater Supply P. O. Box 792 El Dorado 67042	(316) 321-9100 (24 hrs) Ext. 241
Elk City Vater Supply Elk River City Hall Elk City 67344	(316) 627-4315 (Plant)
Emporia City Neosno River & Vater Supply Cottonwood River 2910 V. 24th Street Emporia 66801	(316) 342-3413 (24 hrs) (316) 342-1918 (WWIP)
Brie City Vater Supply Neosno River City Hall-224 S. Main Brie 66733	(316) 244-3488 (Plant) (316) 244-3243 (Sheriff)
Eureka City Otis Creek Reservoir Vater Supply City Hall-309 N. Oak Eureka 67045	(316) 583-6511 (City f) (316) 583-5222 (Off)
Larry Pritz	(316) 583-6429 (Res)

Y. KANSAS

5. Kansas Surface Valer Supplies (continued)

		(or
TOWN & CONTACT	VATER SOURCE THE	EPEONE NUMBER
Ft. Scott City Vater Supply City Hall 1 East 3rd Ft. Scott 66701	Marmaton River Lake Pt. Scott Rock Craek Lak	(316) 2:3-5160 (Plane
Pranklin County RWD #6 P. O. Box 6 Rantoul 66079	Marais des Cymn River SV 1/4, Sac T175, RZIE, Frank County	.22 (913) 878-3535 (Plent)
Fredonia Vater City Hall-314 N Fredonia. 66736 Harrin Conra	. 7th	(316) 378-2231 (316) 378-2700 (Plane)
Gardner City Vater Supply City Hall P. O. Box 347 Gardner 66030	Gardner Lako Sec. 11. TI4S. R Johnson County	222 (913) 884-6802
Garnett City Vater Supply City Hall 131 Vat 5th P.O. Box H Garnett 66030	Cedar Creen Garnett Lake	
Grenoia City Vater Supply City Hall - Hai Grenoia 67346	Caney River	(316) 318-2860
Gridley City Vater Supply P. O. Box 182 Gridley 66852	Gridley Laire	. (555) 555 5515
George Vanar John Zuern.	sdale. Water Dept Sup Mayor	VT (316) 8:6-2825 (Res) (316) 8:6-4733 (Res)
Hartford City Vater Supply City Hall - P. Hartford 66854		(316) 392-5513
Ron Thuma (M Ves Burris	1yor)	(316) 3:2-5822 (Res) (316) 3:2-5763 (Res)

5. Kansas Surface Vater Supplies (continued)

TOWN & CONTACT VATER SOURCE TELEPHON	E NUMBER
Harveyville City Vater Supply City Clerk Harveyville 66431 Dean Crumm Dean Cr	(913) 589-2310 (913) 589-2440 (Plant) (913) 589-2327 (Mayor) (913) 589-2461 (Supr)
Herington City Vater Supply City Hall 17 N. Broadway Herington 67449 Lyons Craex Vatersned Dist Sec. 17, T16S, R4E	(913) 258-2271 (913) 258-2226 (Pol)
Hillsboro City Marion Reservoir Vater Supply City Hall - 116 E. Grand Hillsboro 67063	(316) 947-3162 (316) 947-3440 (Pol) (316) 382-2144 (Sheriff)
Holton City Vater District #1 Vater Supply Rural Vater District City Hall (Vells) 430 Pennsylvania Ave. P.O. Box 366 Eclion 66436	(913) 364-2721 (City ff) (913) 364-3719 (24 hr) (PowerPlant) (913) 364-2135
Horton City Hission Lake Water Supply Sec. 28, T45, R17E City Hall Brown County 205 E. 8th St. Horton 66439	(913) 486-2681 (913) 486-2694 (Pol) (913) 486-3911 (Plant)
Kleo Cauíman, Supt.	(913) 486-3851 (Res)
Howard City Impoundment Vater Supply 2 miles east of Town P. O. Box 335 (City Lake) Howard 67349	(316) 374-2501 (Plant) (316) 374-2202 (City Office)
Mr. Francis Morgan	(316) 374-2505
Humboldt City Neosno River Vater Supply 701 Bridge St. Humboldt 66748	(316) 473-3232 (316) 473-3131 (24 hr)
Independence Verdigris River City Vater Supply City Hall-120 6th St. Independence 67301	(316) 331-2500 (316) 331-2130 (24 hr)
Iola City Neosno River Vater Supply City Hall - 2 V. Jackson Iola 66749	(316) 365-2771(City ff) (316) 365-5612 (24 hr)

5. Kansas Surface Water Supplies (continued)

					•
	TOWN & CONTACT	VATER SOURCE TI	TERRONE NUMBI	R	
	RYD #11 N P.O. Box 493A Ozawkie 66070	Perry Reservoir E 1/4, Sec. 19, T9S Jefferson Co:	(913) R17E	464-2600	(9:00-12:00)
	Darrell Bates Villiam L. Mo		(913) (913)	876-24 95 484-2474	(Res) (Res)
	Johnson Co. Air Vater Supply Johnson Co. Airport Commiss: Industrial Airport Johnson County,	ion ort.	(913) E (913)	782-5335 784-7635	(FD)
	Johnson County Vater District #1 and #2 5930 Beverly Mission 66202 Ralph Wyss at	Kansas River & Missouri River nd Bennet Kvan		722-3000	
	Kansas Army Amenition Plant VS Day and Zinnerm Parsons 67357	Neosno River NE 1/4, Sec. 33, T3 R21E. Labette Cou an. Inc.	_`	421-7400	(24 hr)
•	Kansas City Vater Supply Board of Public 700 Himmesota A Kansas City, KS	venue	(913)	573 -9000	•
	Rickapoo Reserv Vater Supply Rural Roure #1 Box 157A Horton 66439 Paul Cadue,	,	iE (913)	48 6-2131 48 6-3579 48 6-2773	(24 hr; (Plant)
	LaCygne City Vater Supply City Hall P. O. Box 600 La Cygne 66040	Marais des Cygn River	(913)	7:7-2144 7:7-2053 7:7-2314	(Plant)
	Gale McReyno Nate Harris,	Mayor			
	Vater Supply City Offices P. O. Box 708	Kansas River Clinton Reservoi:	(913)	841-1600 841-7722 843-2685	

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5. Kansas Surface Water Supplies (continued)

TOWN & CONTACT V	ATER SOURCE	TELEPHONE	NUMBE	<u>R</u> .	
Leavenworth City Vater Supply Leavenworth Vater 601 Delaware Leavenworth 66048	Dept.			682-1513 727-1902 (Plant)	
Lebo City Vater Supply P. O. Box 14 Lebo 66856 Gerald O'Neil	Lebo City Lak Sec. 5, T19s. F Coffey County	14E	(316)	256-6622 256-6764 256-6293	(24 hr) (Plant)
LeRoy City Vater Supply City Hall P. O. Box 356 LeRoy 66857 Ron Ellis	Neosno River	•	(316)	964-2245 964-2231 964-2390	,
Longton City Vater Supply City Hall Kansas Ave. Longton 67352	Elk River		-	642-2225	
Glen Barnaby Vilbur Persing	ter		(316) (316)	642-2 <u>23</u> 1 642-3755	(Rez)
Louisburg City Vater Supply P.O. Box 489 Louisburg 66053	City Lake Impoundme Sec. 32. TISS. Hismi Coun	R 25E	(913)	837-5371	
Bob Gardner. Publ	Lic Vorks Dir		(913)	294-4536	(Res)
Lynnon City Vater Supply City Hall-230 Top Lynnon 66451	Lyndon City Salt Cree peks Ave.			828-4902 828-3121	(Sheriff)
Tom Leuszier,	Water Supt.		(913)	8 28- 3326	(Res)
Madison City Vater Supply P. O. Box 247 Madison 66860	Hadison City L Sec. 24, T22S. Granwood Coun	R12E	(316)	437-2556	
Max Kimberlin			(316)	437-2444	
Marion City Vater Supply 203 N. Third Str Marion 66861	Marion Reser	voir	(316)	382-3703 382-2666 0 am to 1	(Plant)

X. KANSAS

5. Kansas Surface Vater Supplies (continued)

TOWN & CONTACT VATER SOURCE TELEPHO	NE NUMBER
Marysville City Big Blue River Vater Supply Municipal Bldg209 N. 8th Marysville 66508	(913) 562-5331 (913) 562-2343 (Pol) (913) 562-3136 (Plane)
Miami County RVD #2 R.R. #3 P.O. Box 186 Wea Craek Hillsdale 66036 Fred Koup	(913) 783-4325 (24 hrs)
Milford City Milford Reservo:r Vater Supply P. O. Box O, Milford 66514 Eve Ackermann	(913) 463-5490 (913) 762-2323 (Sheriff) (913) 463-5498 (Res)
Mitchell County Glen Elder Reservoir RVD #2 P. 0. Box 17 Glen Elder 67446	(913) 5/5-3341 (Z4 hr) (913) 5/5-3281 (Sec.)
Moline City Vater Shed Vater Supply City Clark-Box 253 Moline 67353 Desmis Hogan	(316) 647-3665 (316) 647-3485 (24 hr) (316) 647-3229 (Plant)
Moran City Neosno River Vater Supply P. O. Box 236 Moran 66755 Robert Rhodes	(316) 217-4271 (Plant)
Hound City Vater Supply City Hall P. O. Box 332 in Sec. 16, T225, RU3E Hound City 66056 Linn County Don Kelly Richard Perkins	(913) 755-2749 (Plant) (913) 755-2749 (Res)
Hound Valley City Public Wholesale Vater Supply City Hall District #4 P. O. Box 164 Hound Valley 67354 John Hess	(913) 795-2183 (Res) (316) 318-3411

X. KANSAS

5. Kansas Surface Water Supplies (continued)

TOWN & CONTACT VATER SOURCE TELES	HONE NUMBER
Neodesna City Fall River Vater Supply P. O. Box 298 Neodesna 66757 Roy Alexander, Supr.	(316) 325-2750 (316) 325-2642 (F D)
Neosno County RVD #2 Rurai Route #1 Savonnurg 66772 Marion Page Mr. Gordon Canville Creek Impoundment Sec. 34, TZ7S, R20E. Neosno County	(316) 754-3868 (316) 754-3868 (Plant) (316) 431-4013 (316) 431-1820
Norton City Keith Sebelius Vater Supply Reservoir P. O. Box 160 Norton	(913) 877-3355 (913) 877-3202 (Plant) (913) 877-3668 (Supr) (913) 877-2255 (24 hr)
Olathe City Cedar Creek Pater Supply Incoundment (Lake P. O. Box 768 Olathe)Sec. 32. T13S Olathe 66061 R23F. Johnson County	(913) 782-7551 (24 hr) (913) 782-2600 (City E)
Olpe City Impoundment Vater Supply Sec. 3. TZ1S. RZ3E P. 0. Box 224 Lyon County Olpe 66865	(316) 475-3780 (316) 475-3284 (Res) (City Clerk) (contact Emporia City Vater)
Osage City Melvern Reservoir Vater Supply City Hall 5th and Hain Osage City 66523	(913) 528-4124 Water Dept) (913) 528-3851 (24 hr) (913) 528-4351 (Flant)
Osage County Pomona Reservoir Box 35, R.R. 1 Vassar 66543 Gerald Scheid, Plant Mgr	(913) 828-4545 (Plant) (913) 828-4785 (After hours)
Osavatomie City Harais des Cygnes Vater Supply River City Hall-Hain at 5th Osavatomie 66064	(913) 755-2101 (Pol) (913) 755-4138 (24 hr)
Oswego City Neosno River Vater Supply 703 5th St. Oswego 67356	(316) 795-4433 (316) 795-4823 (Vater Plant) (316) 795-2565 (Sheriff)

5. Kaness Surface Wrter Supplies (continued)

TOWN & CONTACT VATER SOURCE TELEPHONE NUMBER					
	is des Cygres River I	(913) 2/2-5966 (913) 2/2-2190	(24 hr)		
Vater Supply L P. O. Box 409 Sec.	a Bull Craek & aka Miola : II. TI7S, F.ZIE ami County	(913) 254-2397 (913) 254-3856 (913) 254-4191	(Plant)		
Vater Supply Sec. 8	poundment , TZOS, RZIE IN County	(913) 858-2920 (913) 858-3810	(City Clark) (24 hr)		
•	abette Craer Neosmo Rive:	(316) 421-0906 (316) 421-1656			
P. O. Box 399	m. 29, TZİ! R 25E Linn County	(913) 352-825 (913) 755-266 (913) 352-887 (913) 352-825	(Shariff)		
Vater Supply Sec.	City Lake 8, TZ3S, RZSE Linn County	(913) 471-452 (913) 471-437			
Vater Supply NE 1/4	iddle Creek , Sec. 13, TIBS Franklin County	(913) 9:7-244 (913) 2/2-380			
Public Vholesale Big Vater District #4	g Hill Lake	(316) 315-272	1		
Vater Supply	ky Hill Rivar Vells Sail Lakes	(913) 463-631 (913) 463-212 (913) 463-631	l (Pol)		
Vater Supply Sec.	City Lake 1. TZS. R13E Bana County	(913) 2E4-215 (913) 2E4-207 (City Lake)	7 (Vater_Plant		

X. KANSAS

5. Kansas Surface Water Supplies (continued)

TOWN & CONTACT VA	TER SOURCE TELEPHO	NE NUMBER
Salina City Vater Supply P. O. Box 1307 Salina 67402	Smoky Hill River	(913) 827-9625 (Office) (913) 825-4319 (Plant) (City Lake)
Scranton City Vater Supply P. O. Box 218 Scranton 66537	Clinton Reservoir	(913) 793-2414 (City E)
Sedan City Vater Supply 109 N. Chautauqua Sedan 67361	2 City takes North of town Sec. 16, T33S, R11E Chautauqua County	(316) 725-3193 (City E) (316) 725-3134 (24 hr)
Lyle Plankensni		(913) 725-3660 (Res)
Vater Supply	Impoundment on trib. to Salt Creek Sec. 11. T285. R11E Greenwood County	(316) 736-2323 (Off)
Margery Pape		(316) 736-2801 (Res)
Shavnee County RVD #8 3260 SE Tecumsen Tecumsen 66542	City of Topeka Tank Topeka Reservoir & Clinton Lake Shawnee County	(913) 379-5553 (24 hr)
Spring Hill City Vater Supply City Hall 100 V. Nichols Spring Hill 66083	City Lake Hillsdale Lake	(913) 686-3664 (Off) (913) 686-2700 (Pol)
St. Paul City Vater Supply City Hall P. O. Box 311 St. Paul 66771	Neosno River	(316) 449-2266 (9:00-1:00)
Emil A. Kenne	dy, Jr.	(316) 449-2596 (24 hr)
Thayer City Water Supply P. O. Box 157 Thayer 66776	City Lake Impoundment Sec. 31 T29S. R1BE Necson County	(316) 839-5353 (City E) (316) 839-5675 (24 hr) (316) 839-5840 (Plant)
Topeka City Water Supply P. O. Box 1518 - Topeka 66601 Richard Pelto		(913) 235-1383 (Plant) (913) 234-0201 (24 hr) (913) 295-3827 (24 hr)

Y. KANSAS _

5. Kansas Surface Vater Supplies (continued)

and desired;					
TOWN & CONTACT	VATER SOURCE	TELEPHONE NU	MA	R .	
Toronto City Vater Supply P. O. Box 235 Toronto 66777	Toronto Reserv			627-2605 627-2711	(Res)
Tulakes Home Dev Vater Supply Rural Route #2 Chanute 66720 Gordon Realty	2 Impoundment NE 1/4, Sec. 22. R17E, Vilson Co	. T27S	16)	431-1820	
Uniontown City Vater Supply City Hall - P. O Uniontown 66779	Marmaton Riv	ver (3)	16)	755-4742	(City E)
Valley Falls Cit Vater Supply City Hall Valley Falls 660		(9)	13)	945-6612 945-3434 945-3423	(Pol)
Vellington City Vater Supply 317 S. Vashington Vellington 67152 Terry May, Su	E. Branch Pro Crack also Chikasi	irie (3)	16)	325-2811 434-5351 325-3331	(Lake)
Vaite Memorial Camp Vater Suppl P. O. Box 165 R.R. #2. Box 60 Council Grove 66			16)	76 7-5165	
Vichita City Vater Supply 435 V. Main Vichita 67202	Channy Rese	evoir (3)	16)	2 69-4963	(24 hr)
Mike Vithrow,	Chief Eng	(3)	16)	722-4438	(Res)
Vind & Vares P.O. Box 64 P.O. Box 64 Ozavkie 66070 Charlie Baker	Delavare Riv Petry Reserv		13)	464-2550	
Vinfield City Vater Supply P. O. Box 646 Vinfield 67156	Timber Cri City Lake	, , , ,		221-3060 221-2590	
Gilbert Sping. Don Kerns	ier			221-2177 221-1516	

Y. KANSAS

5. Kansas Surface Water Supplies (continued)

TOWN & CONTACT VATER SOURCE TELEPHONE NUMBER

Voodson County Neosno River (316) 963-2485 (24 hr) RVD #1 at Neosno Falls (316) 625-2147

P. O. Box 137

Neosno Palls 66758

Yates Center City City Reservoir (316) 625-2252 (City H)
Water Supply (316) 625-2102 (Plant)

117 E. Rutlenge (316) 625-2147
Yates Center 66783 (Dispatcher)
Jerry Schaefer

6. Johnson County Emergency Numbers (Area Code 913)

Director of Emergency Preparenness

Dave Parrott

782-5000 ext. 5291 782-3038 (direct dial)

782-0720

(24 hr - Sheriff dispatch; ask for: Duty Officer for Emergency Preparedness)

Johnson County Environmental Department 780-5423 (hr) 205 Flaming Drive 374-1209 (Pager)

Olathe, &S 66061

Mission. KS 66202

Randy Bradley (Director)

Betsy Betros (Pollution Control)

Bill Heimann Inna Prilutsky

Leavood. KS

Civil Defense

Betty Bridges. Coordinator 642-5555 (Bus) 648-5482 (Res)

Overland Park. KS

Emergency Preparedness

Joseph Reed. Coordinator
John Round. Police Captain

381-5252

PENCHEL HOUSE

PUBLIC WATER SUPPLY INTAKE LOCATIONS

NAME OF SUPPLY	name of Stream	COUNTY	1/4 SECTION	SECTION	TWP	RANGE	RIVER MILE
MISSOURI RIVER	•						
St. Joseph	Missouri River	Buchanan	NESW	31	58N	35W	452.2
Kansas City	Missouri River	Clay	SE	10	50N	33W	370.5
Lexington	Missouri River	Lafayette	WM	33	51N	27W	322.5
Higginsville	Missouri River	Lafayette		24	51N	26W	306.0
Glasgow	Missouri River	Howard		8	51N	17W	227.0
Boonville	Missouri River	Cooper	NE	34	48N	17W	197.0
Jefferson City	Missouri River	Cole		6	44N	11W	144.0
St. Louis	Missouri River	St. Louis			45N	4E	37.0
(Howard Bend)							
St. Louis	Missouri River	St. Louis			45N	4E	36.0
(Central Plant)							
St. Charles	Missouri River	St. Charles			46N	5E	29.0
St. Louis County	Missouri River	St. Louis			47N	6E	20.5
(North Plant)				3			
MISSISSIPPI RIVER		•					
Canton	Mississippi River	L <i>e</i> wis		36	62N	6W	342.3
Hannibal	Mississippi River	Marion		20	57N	4W	310.0
Louisiana	Mississippi River	Pike		18	54N	1W	282.8
St. Louis	Mississippi River	St. Louis		35	47N	7E	190.5
(Chain of Rocks)		·			•		
Cape Girardeau	Mississippi river	Cape Girardeau		28	31N	14E	54.3
MERAMEC RIVER	Brokery FF. All 12	• • • • • • • • • • • • • • • • • • • •		·		,	
Rirkwood	Meramec River	St. Louis			44N	5E	Approx. 1.2

PUBLIC WATER SUPPLY INTAKE LOCATIONS

	NAME OF SUPPLY	NAME OF STREAM	COUNTY	1/4 SECTION	SECTION	TWP	RANGE	RIVER MILE
	St. Louis County (South Plant)	Meramec River	St. Louis		***	44N	5E	Approx. 400' downstream from Hwy. 30 bridge
	St. Louis County (Meramec Plant)	Meramec River	St. Louis			43N	6E	Approx 800' downstream from I-55
	OTHERS							
171	Adrian	South Grand River	Bates	SESE	34	43N	31W	
ř	Amoret	Marais De Cygnes	Bates	WWW	5	39N	33W	
	Archie	South Grand River	Cass	NESE	28	43N	31W	
	Bates Co. PWSD #2	Miami Creek	Bates	SESW	10	41N	33W	
	Branson	Lake Taneycomo	Taney	NESE	5	22N	21W	
	Brookfield	Yellow Creek	Linn	NWNE	5	57N	19W	
	Bucklin	Mussel Fork Creek	Macon	SWSW	7	57N	17W	
	Butler	Marais De Cygnes	Bates	SWSE	4	39N	32W	
	Butler	Miami Creek	Bates	SENE	24	40N	32W	
	Cass Co. PWSD #7	South Grand River	Cass	SESW	7	44N	32W	
	Chillicothe	Grand River	Livingston	SWNW	13	57N	24W	
	Clinton	South Grand River	Henry	SENE	7	41N	26W	
	Dearborn	Bee Creek	Platte	SESW	36	55N	35W	
	Fredericktown	Little St. Francis River	Madison	SESE	6	33N	7W	
	Gower	Castile Creek	Clinton	SESW	10	55N	33W	

PUBLIC WATER SUPPLY INTAKE LOCATIONS

		(
	NAME OF SUPPLY	NAME OF STREAM	COUNTY	1/4 SECTION	SECTION	TWP	RANGE	RIVER MILE
	Jefferson Co. 2	Big River	Jefferson	SWNW	16	43N	4E	
	Joplin	Shoal Creek	Newton	NENE	28	27N	33W	
	Marceline	Mussel Fork Creek	Linn	NWSW	25	57N	18W	
	Maryville	102 River	Nodaway	SWSW	15	64N	35W	
	Neosho	Shoal Creek	Newton	SWSW	7	25N	31W	
	New London	Salt River	Ralls	MMM	5	55N	4W	
	Paris	Middle Fork Salt River	Monroe	SWNE	10	54N	10W	
	Perryville	Saline River	Perry	NESW	15	35N	10E	
	Piedmont	Black River	Wayne	NWSE	9	28N	3E	
	Plattsburg	Smithville Reservoir	Clinton	SESW	19	54N	33E	
•	Poplar Bluff	Black River	Butler	SWNW	2	24N	6E	
	Ralls Co. PWSD #1	Salt River	Ralls	SESE	30	56N	4W	
	Ridgeway	Big Creek	Harrison	SWNE	32	65N	27W	
	Rockville	Osage River	Bates	SESE	22	38N	29W	
	Sedalia	Flat River	Pet tis	NENW	22	45N	21W	
	Shelbina	Salt River	Shelby	SWNE	17	57N	10W	
	Smithville	Little Platte River	Clay	. SESE	23	53N	33W	
	Springfield	James River	Greene	NWNE	2	28N	21W	
	Sweet Springs	Blackwater River	Saline	SESW	10	48N	23W	
	Trenton	Thompson River	Grundy	NESW	18	61N	24W	
	Wyaconda	Wyaconda River	Clark	NENW	28	65N	9W	

NEBRASKA SURFACE WATER SYSTEMS

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1.	NE31 02502	BEAVER LAKE INC. RFD PLATSMOUTH, 68048	TROY WEATHERBY (402)235-2241
2.	NE31 17905	BLAIR, CITY OF 218 S 16TH ST. BLAIR, 68008	WARREN D. WHITAKER (402)426-4191
3.	NE31 20303	CEDAR-KNOX EWD P.O. BOX 518 HARTINGTON, 68739	JIM SHELTON (402)254-6758
4.	NE31 04507	CHANDON, CITY OF P.O. BOX 390 CHANDON, 69337	LARRY TEAHON (308)432-2815
5.	NE31 04505	CRAWFORD, CITY OF 209 ELM ST. CITY HALL CRAWFORD, 69339	JACQUE KREIDER (308)665-1300
6.	NE31 05507	OMAHA, CITY OF MUD FLORENCE WATER PLANT 28th AND GREBE STREETS OMAHA, 68112	ZOLTAN KEREKES (402)449-8180
7	NE31 20425	OPPD NEBRASKA CITY STATION RR #3 NEBRASKA CITY, 68410	DALE WIDOE (402)873-7731
8.	NE3 50099	US ARMY CORPS OF ENG. GAVINE PNT. DAM PROJ. OFF. P.O. BOX 710 YANKTON, 57078	JOHN GARTNER (402)667-7873

APPENDIX A.3.b

MISSOURI AND MISSISSIPPI RIVER WATER INTAKES

Revision 1 December, 1994

1. Missouri River Water Intakes

RIVER		ACTIVITY OR
HILE	NAME	EMERGENCY PHONE NUMBER
310 c		
/18.5	Iowa Public Service	(712) 277-7901/02
716.6	Iova Public service	(712) 277-7966
648.4	City of Blair*	(402) 426-9661
646.0	Omaha Public Power (Fort Calhoun St.)	(402) 426-4011
6 26. 3	Metropolitan Utilities District Omaha. NE	* (402) 449-8180
625.4	Omaha Public Power (N. Omaha)	(402) 536-4484
619.0	Council Bluffs Water Works*	(712) 328-9577
	Council Bluffs. IA	(712) 328-9587
		(100) 000 700
615.3	Omaha Public Pover (Jones St. Pover Plant)	(402) 536-4515
6 06. 0	Iowa Power and Light Co.	(712) 366-0563
556.0	Omaha Public Power District	(402) 873-4459
532.5	Nebraska Public Power District	(402) 925-6811
452.2	St. Joseph Water Co.*	(816) 233-8844
422.5	Atchison City Water Works	(913) 36 7-3067
411.0	LE Kansas City Power and Light Latan. KS	(816) 386-5225
397.4	Leavenvorth Vater Department*	(913) 727-19 02
3 79. 9	Johnson County VD#1	(913) 722-3000
	Rural WD#2 (Stanley, KS)	(913) 722-3000
373.6	KC Brd of Public Utilities	
3.3.0	Drinking vater	(012) 572 0250
	Power Plant	(913) 573-9358 (913) 573-9190
	,	(313) 3/3-9190
370.5		
	Dispatcher	(816) 274-1256
	Lab Services/Treatment	(816) 454-7600
336.7	Missouri Public Service - Wibley	(816) 249-6196
317.1	Missouri Vater Company*	(816) 259-2912
	Lexington. MO	(816) 259-2761
		, ,

1. Missouri River Valer Intakes (continued)

river Hile	NAME EM	ACTIVITI OR RECENCI PHONE NUMBER
306.5	Humicipal Utilities of Higginsville Higginsville, Hissouri (24 hours)	(816) 584-2106
226.9	LE City of Glasgov*, MO After hours:	(816) 338-2148 (816) 338-2111
196.9	Board of Public Works - Water Plant Boonville, MO	(816) 882-5131
144.1	Capital City Water Company Jefferson City, MO. (24 hours):	(314) 636-8616
115.5	LE Callavay County Nuclear Planz (20 hours):	(314) 676-8234
37.1	St. Louis Vater Div. (Howard Bend)*	(314) 469-1901
	St. Louis County Vater Co. (20 hours): LE Old Railroad Vater Intake	(314) 991-3404
20.5	RB County of St. Louis Water Morks	(314) 991-3404

*Public Vater Supplies

VI. MISSOURI AND MISSISSIPPI R. VER VATER INTAI'ES

2. Mississippi River Public Water Intakes/Locks & Dass

RIVER MILE		LOCKS R DAMS	ACTIVITY OR EMERGENCY PROMES MINERS
679.2	None	No. 8	(608) 689-2625.
	Interstate Power Co. Dubuque. IA		(319) 582-5421
647.9	None.	No. 9	(608) 874-4311
	Bruening Rock Products Decoran. IA		(319) 382-2933
615.1	None	No. 10	(319) 252-1261
	Molo Sand and Gravei Dubuque, IA	·	(319) 557-7540
585	John Deere Dubuque Vorks Dubuque. IA		(319) 557-5151
5 83. 0	None	No. 11	(319) 582-1204-
581	Interstate Power Co. Dubuque, IA		(319) 582-5421
556.7	None	No. 12	(319) 872-3314 -
- 536	UMWR - U.S. F.W.S. Savanna District, Spring	iake	(815) 273 -2732
522.5	None	NO. 13	(815) 589-3313
	Archer Daniels Midland Co	3	(319) 242-1121
	Interstate Power Co. Dubuque. IA		(319) 582-5421
506.5	Commonwealth Edison Quad Cities Sta. East Holine. IL		(309) 654-2241
5 03	Iowa DNR Vildlife Bureau		(515) 281-5154-
498	Moline Consumers Co. Le Claire, IA		(319) 69 3-316 1
493.5	None	No. 14	(309) 788-6366 (309) 788-6361
490. 0	Davemport Vater Co. Davemport, IA		(319) 322-0161

2. Mississippi River Public Water Intakes/Locks & Dame (continues)

river Hil y	NAME	LOCKS & DAMS	ACTIVITY OR PHERGENCY PHONE NUMBER
489.5	Aluminum Company of Amer Davenport, IA	rica	(319) 359-2754
489.2	City of East Moline Rest Moline, IL		(309) 752-1519
485.7 (slougn)	City of Moline Moline, IL		(309) 797-0489
485 (slougn)	Hervester - Moline Moline, IL		(309) 765-7481
485 (slougn) (5 intak	IA-IL GAE - Moline Stati Davenport, IA (es)	on	(319) 326-7175
4 84. 2 (sl ougn)	Rock Island Arsenal Rock Island, IL		(309) 782-1491
484	IA American Vater Davemport, IA		(319) 324-3264
4 82. 9 (sl ough)	City of Rock Island Rock Island, IL		(309) 793-6674
482.9	None	No. 15	
		NG. 13	(309) 788-6361 (309) 788-6365
468	Central Iowa Pover Coop.		(309) 788-6361 (309) 788-6365 (319) 381-2062
4 68 4 57. 2	Central Iowa Power Coop. Montpelier, IA		(309) 788-6365 (319) 381-2062
	Homman II		(309) 788-6365
457.2	None Grain Processing Corp.		(309) 788-6365 (319) 381-2062 (309) 537-3191
457.2 454	None Grain Processing Corp. Muscatine, IA Muscatine Power & Water Muscatine, IA		(309) 788-6365 (319) 381-2062 (309) 537-3191 (319) 264-4695
457.2 454 453	None Grain Processing Corp. Muscatine, IA Muscatine Power & Water Muscatine, IA	No. 16	(309) 788-6365 (319) 381-2062 (309) 537-3191 (319) 264-4695 (319) 263-2631
457.2 454 453 437.1	None Grain Processing Corp. Muscatine, IA Muscatine Power & Water Muscatine, IA None Charles & Walter Gerst	No. 16	(309) 788-6365 (319) 381-2062 (309) 537-3191 (319) 264-4695 (319) 263-2631 (309) 587-8125
457.2 454 453 437.1 426 420	None Grain Processing Corp. Muscatine, Ii Muscatine Power & Water Muscatine, Ii None Charles & Walter Gerst Oakville, Ii	No. 16	(309) 788-6365 (319) 381-2062 (309) 537-3191 (319) 264-4695 (319) 263-2631 (309) 587-8125 (319) 766-3285
457.2 454 453 437.1 426 420	None Grain Processing Corp. Muscatine, IA Muscatine Power & Water Muscatine, IA None Charles & Walter Gerst Oakville, IA James Anderson Mediapolis, IA Calvin Virt Burlington, IA	No. 16	(309) 788-6365 (319) 381-2062 (309) 537-3191 (319) 264-4695 (319) 263-2631 (309) 587-8125 (319) 766-3285 (319) 937-6349

recycled paper

2. Mississippi River Public Vater Intakes/Locks & Dame (continued)

river Hile	NAME	LOCKS	ACTIVITY OR
404.5	Burlington Vater Co. Burlington. Id		(319) 752-7611
399.5	Iova Southern Utilities Canterville. Il		(515) 437-4400
390.6	City of Dallas City Dallas City, IL		(217) 852-3224
389	Villiam J. Pieper Vever. IA		(319) 372-4504
3 85. 0	Ft. Madison Water Co. Ft. Madison, IA		(319) 37 2-1602 .
3 78.5	Chevron Chemical Co. Fort Madison. IA		(319) 372-6012
3 75. 8	City of Nauvoo Nauvoo. IL		(217) 453-2587
364.5	Union Electric Co. St. Louis		(314) 554-2637
364.3	Reckuk Vater Co. Reckuk. Il		(319) 524-2011 (Let ring)
364.2	None	No. 19	(319) 524 - 2631
364	Union Electric-Keokuk En Reokuk. Il	yd:::o	(319) 524 -66 20
3 63.5	Hubinger Co. Keokuk. Il		(319) 524-5757
3 59. 8	City of Varsay Varsay, IL		(217) 256-4512
343.2	None	No. 20	(314) 288-3320
327	City of Quincy Quincy, IL		(217) 228-4580
324.9	None	No. 21	(217) 222-0918
307.0	Hannibal Vater Dept.(fil Hannibal, MO	tor plant)	(314) 221-0341 (314) 221-0123
301.2	None	No. 22	(314) 221-0294

2. Mississippi River-Public Vater Intakes/Locks & Dams (continues)

RIVER MILE	NAME	LOCKS & DAMS	ACTIVITY OR . EMERGENCY PHONE NUMBER
282.8	City of Louisiana		
	Louisians. MO		
273.4	None	No. 24	(314) 242-3524
245	Mari Tvain Refuge-Batcht Brussels. IL	OAII	(618) 883-2524
241.4	None	No. 25	(314) 668-8120
223.0	Louisians Water Dept. Louisians, HO		(314) 754-6912
220	Calhoun Point Graiton. IL		(618) 376-3303
204.1	IL American Water Co. Alton, IL		(618) 466-9470
202.9	None	No. 26	(618) 462-1713
200.9	(Replacement Lock and Dam Under Construction)	No. 25	
200	II.Pover Vood River Station Decarur, IL		(217) 424-7376
200	Olin Corp. Bast Alton. IL		(618) 258-2975
192.2	IL American Vater Co. Granite City Belleville, IL		(618) 236-1180
190.4	St. Louis Water Division St. Louis, MO(Chain of)	-	(314) 868-5640 (314) 868-5640
185	None	No. 27	(61B) 452-7107
183	Union Electric Venica Station St. Louis, MO		(314) 554-2641
180-8	IL American Water Co. East St. Louis Belleville, IL		(618) 236-1180
140	Union Electric Rush Isl South of Crystal City,		

LEGACING CROSS

2. Mississippi River Public Vater Intakes/Locks & Dame (continued)

river Hile	NAME	F.OCKS TAMES	E MERCENCY PROME NUMB VCTATIL OR
109.9	Henara Correctional Co	ente::	(618) 826 -5071
109.5	City of Chaster Chaster, IL		(618) 826-3315
81 (2 int	CIPS - Grand Tower Stakes)Springfield. IL	ation	(618) 5 65-2481
54.3	Cape Girardeau Utiliti Cape Girardeau. NO	es Co.	(314) 335-9145

3. Upper Mississippi River Mile Points of County Lines

• •	• •	
HILEPOINT	STATE	COUNTY/COUNTY
673.8 L	HN/IA	Houston/Allamakee
6 67. 6 R	VI	Vernon/Craviord
6 37. 3 L	IA.	Allamakee/Clayton
6 30. 7 R	VI	Crawford/Grant
600.6 L	IA.	Clayton/Dubuque
580.6 R	AIVIL	Grant/Jo Daviess
567.0 L	IA.	Dubuque/Jackson
548.9 R	II.	Jo Daviess/Carroll
532.8 L	<u>la</u>	Jackson/Clinton
524.7 R	11.	Carroll/Whiteside
511.5 R	IL.	Vhiteride/Rock Island
506.6 L	I.	Clinton/Scott
4 69. 5 L	. IA	Scott/Muscatine
448.8 L	IA.	Muscatine/Louisa
448.8 R	IL.	Rock Island/Hercer
4 25. 6 L	<u>IA</u>	Louisa/Des Moines
425.5 R	IL	Hercer/Hengerson
3 95. 9 L	IA	Des Hoines/Lee
390.6 R	IL.	Henderson/Hancock
361.5 L	IY\H0	Lee/Clark
351.0 L	HO	Clari/Levis
347.3 R	11.	Hancock/Adams
328.5 L	HO	Levis/Marion
312.4 R	IL.	Adams/Pike
306.1 L	MO	Merion/Ralls
297.4 L	MO	Ralls/Pike
275_4 R	II.	Pike/Calhoun
258.1 L	HO	Pike/Lincoln
236.4 L	MO	Lincoln/St. Charles
217.9 R	II.	Calhoun/Jersey
2 08. 5 R	II.	Jersey/Madison
19 5. 5 L	HO	St. Charles/St. Louis
1 82. 3 R	IL	Hadison/St. Clair
171.2 R	IL.	St. Clair/Monroe
160.9 L	ΥO.	St. Louis/Jefferson
139.3 L	KO	Jefferson/Ste. Genevieve
135.8 R	IL.	Monroe/Randolph
117.0 L	HO	Sta. Genevieve/Perry
98.6 R	IL.	Randolph/Jackson
79.4 R	IL.	Jackson/Union
75.2 L	HO	Perry/Cape Girardeau
55.4 R	II.	Union/Alexander
47.8 L	HO	Cape Girardean/Scott
25.9 L	KO	Mississippi/Scott

Note: R & L = Right and Left Ascending above Ohio River

4. Selected Tributaries to the Upper Mississippi River

	273888 17m	compan a sa	
TRIBUTARY NAME	ENTER IMR	STREEM	DRAINAGE AREA (Square Hiles)
<u> </u>	ge uranhame	name en (1.1762)	(2dners urres)
Root River. MN	693." L		1,660
Bad Axa River, VI	67 5. :: R		170
Upper Iowa River. Il	671. L		1,600
Village Creek. IA	6 62. . L		.,000
Rush Craek. VI	6 59. R		52.5
Copper Creek. VI	655.J R		27.
DuCharme Creek, VI	644 R		12.4
Paint Creek, IA	640." L		42.8
Tellow River, IA	637." L		245
Visconsin River, VI	631." R		11,700
Smy Magill Creek. IA	627.5 R		11,300
Turkey River. IA	607.11 L		1 686
Grant River, VI	592." R		1,69 6
Platte River, WI	588.A R		316
Little Maquoketa River, IA	586.:i L		3 38 .
Catfish Creek. IA	577.5 L		156
Memominee River. IL	574.5 R	6.0	
Little Menominee River. IL	570.6 R	13.8	
Sinsinava River. IL	568.9 R		4.4
Tete Du Hort Creek. Il	567. L	13.8	49
Galenz River, IL	564.9 R	12.0	
Smallpox Creek. IL	563.2 R	13.0	203
Haquoketa River, IA	548.6 L	15.8	
Apple River. IL	545.2 R		1,903
Plum River. IL		55.0	262
Elk.River. IA	5 36. " R 5 28. " L	44.7	299
Heldt Ditch. IA			
Johnson Creek Diversion	526. L		
Ditch. IL	522. R	23.1	•
Otter Craek. IA	591		
Rock Creek. IA	521 R	10.5	
Shaff Crees. IA	507.0 L		
Vepsipinicon River. Il	507.0 L		
Duck Creek. IA	506." L		2,563
Rock River. IL	487." L		
Copperas Craek. IL	479. R	162.3	10,915
Iowa River. IA	452.0 R	28.5	
Edwards River, IL	434.0 L		12,540
Pope Creek. IL	431 R	75.4	451
Hawkeye Dolbee Diversion, L	428_() R	58.9	200 .
Spring Creek Diversion			
Ditch, IA	410 L		
Henderson River Diversion	400 =		
	409." R	67. 7	604
Ditch, IL			
Flint River, IA	405.4 L		
Skimk River. IA	395.9 L		4,325
Devils Crask. IA	377.5 L.		
Rileys Craek. IL	372.5 R		
Larry Creek. IL	369.2 R	9.5	
Chancy Crack. IL	364.// R	11.5	•••

VI. MISSOURI AND MISSISSIPPI LITER VALVE INTAVES

4. Selected Tributaries to the Upper Mississippi River (continues)

	KNITER UMB	STRRAW	DRAINAGE ARRA
TRIBUTARY NAME			(Square Miles)
Des Hoines River. IA/MO	361.5 L	,	14,540
Fox River, HO Bear Creek. IL	353.6 L		0.1,0.10
Bear Creek. IL	341.0 R	43.1	
Vyaconda River. HO	337.3 L		
Rock & Ursa Creek Diversion	3 36.3 R		
Ditch. IL			
Durgans Creek Diversion Ditch. HO	331.5 L		
Fabius River Diversion. HO	299 / 1		
North Pinner MA			
North River, HO South River, HO	321.1 L		
Mall Cook II	320.8 L		
nide bicere in	31 8. 2 R	22.8	•
Handley-McCraney Diversion	296.7 R	4.5	74 -
Channel, IL			
Salt River. HO Noix Creek. HO	284.3 L		2,230
	2 82. 2 L		, ====
Buffalo Creex. HO	280.9 L		
Ransey Creek. HO	265.5 L		
Bryants Creek Diversion	260.8 L		
Channel, HO			
Channel, MO Bobs Craek, MO Feruque Craek, MO	238.2 L		
Fernane Creek. HO	233.6 1		
Darrienne Creek. MO	233.6 L 227.4 L		•
Dardenne Creek. MO Illinois River. IL	217.5 R	270 0	00 000
Pissa Creek. IL	209.4 R	273.0	28,906
	199.3 R	25.0	121
		2.4	123
Missouri River, MO	195.6 L		
Cahokia Creek Diversion	195.0 R	51.7	2 63
Channel, IL			
Chain of Rocks Canai	194.2 R		
(North), IL			
Chain of Rocks Canal	184.1 R		
(South), IL	•		
Harring Ditch. IL	174.0 R	11.1	
River Des Peres Drainage Channel. MO	171.8 L		
Heramec River, MO	1 60.6 L		
Fountain Creek, IL	156.4 R		
Joseph Creek, HO		12.1	
	151.5 L		
Reckeskia River, II.	117.6 R	295.1	5,801
Harys River, IL	106.4 R	44-1	243
Apple Creek. MO	75.1 L		
Indian Craek. HO	69.0 L		
Little River Diversion Channel. MO	48.8 L		
Cache River. IL	12 0 8		
CACUE BYASE + TP	13.0 R	35.9	365

R = Right Ascending L = Left Ascending

APPENDIX A.4

METROPOLITAN STATISTICAL AREAS (MSAs)

Revision 1 December, 1994

MUNICIPAL STATISTICAL AREAS (MSA)

ST	MSA	Counties	Population
IA	Cedar Rapids	Lian	168,767
ΪĀ	Davenport-Moline-Rock Island	Scott-IA, Henry-IL, Rock Island-IL	350,861
ĬĀ	Des Moines	Dallas, Polk, Warren	392,928
IA	Dubaque	Dubuque	86,403
IA	Iowa City	Johnson	96,119
IA	Onaha (NE-IA)	Cass-NE, Douglas-NE, Sarpy-NE,	618,262
	•	Washington-WE, Pottawattamie-IA	
IA	Sioux City (IA-NE)	Woodbury-IA, Dakota-NE	115,018
IA	Waterloo-Cedar falls	Black Hawk	146,611
KS	Kansas City (MO-KS)	Cass-MO, Clay-MO, Clinton-MO, Jackson-MO, Lafayette-MO, Platte-MO, Ray-MO, Johnson- KS, Leavenworth-KS, Miami-KS, Wyandotte-KS	1,566,280
KS	Lawrence	Douglas	81,798
KS	Topeka	Shavnee	1 60,9 76
KS	Wichita	Butler, Harvey, Sedgwick	485,270
MO	Columbia ·	Boone	112,379
MO	Jopiia	Jasper, Hewton	134,910
MO	Kansas City (MO-KS)	Cass-MO, Clay-MO, Clinton-MO, Jackson-MO, Lafayette-MO, Platte-MO, Ray-MO, Johnson- KS, Leavenvorth-KS, Miami-KS, Myandotte-KS	1,566,280
MO	St. Joseph	Andrew, Buchanan	83,083
MO	St. Louis (MO-IL)	Crawford-MO, Sullivan City-MO, Franklin-MO Jefferson-MO, Lincoin-MO, St. Charles-MO, St. Louis-MO, Warren-MO, St. Louis City-MO Clinton-LL, Jersey-LL, Madison-LL, Monroe- IL, St. Clair-IL	2 ,444,099
MO	Springfield	Christian, Greene, Webster	240,593
NE	Lincoln	Lancaster	213,641
NE	Omaha (NE-IA)	Cass-ME, Douglas-ME, Sarpy-ME, Washington- ME, Pottawattamie-IA	618,262
NE	Sioux City (IA-RE)	Woodbury-IA, Dakota-ME	115,018

APPENDIX B

- 1. REGULATED FACILITIES
- 2. REGULATED PIPELINES

APPENDIX B.1

REGULATED FACILITIES

APPENDIX B: REGULATED FACILITIES

KANSAS

```
NAME: BOARD OF PUBLIC UTILITIES (QUINDARO)
   LOCATION: 3601 N 12TH STREET
 CITY/STATE: KANSAS CITY, KS 66104
   PHONE: (913)537-9828
OPERATOR: JOHN MEINDERS
       PHONE:
         FAX:
   ALTERNATE: MARYNELL HOLLENBECK
       PHONE: (913)537-9828
XXXXX
        NAME: CARGILL, INC. (MOLASSES LIQUID PRODUCTS DIVISION)
    LOCATION: 10520 WALCOTT
  CITY/STATE: KANSAS CITY, KS 66109
       PHONE: (913)299-4334
    OPERATOR: JOHN KORSCHGEN
       PHONE:
         FAX:
   ALTERNATE: C. A. JONES
       PHONE: (913)299-4334
XXXXX
        NAME: CHASE TERMINAL COMPANY (GREAT BEND FACILITY)
    LOCATION: RURAL ROUTE 289 HIGHWAY 156
  CITY/STATE: GREAT BEND, KS 67530
       PHONE: (316)792-4707
    OPERATOR: GORDON HALTER
       PHONE:
         FAX:
   ALTERNATE: PAUL HAASE
       PHONE: (316)792-4707
XXXXX
        NAME: CONOCO INC. (WICHITA PRODUCTS TERMINAL)
    LOCATION: 8001 OAK KNOLL ROAD
  CITY/STATE: WICHITA, KS 62707
       PHONE: (316)681-2081
    OPERATOR: SCOTT SALSBURY
       PHONE:
         FAX:
   ALTERNATE: JERRY BOYD
       PHONE: (316)681-3746
XXXXX
         NAME: DEPARTMENT OF THE ARMY (SUNFLOWER AMMUNITION)
    LOCATION: 35425 W 103rd STREET
  CITY/STATE: DESOTO, KS 66018
    PHONE: (913)791-6700
OPERATOR: J. L. BETTEKEN
       PHONE:
          FAX:
   ALTERNATE: RONALD D. LEE
       PHONE: (913)791-6755
XXXXX
```

```
NAME: ERNRON GAS PROCESSING CO. (BUSHTON PLANT)
    LOCATION: ROUTE 1
  CITY/STATE: BUSHTON, KS 67427
       PHONE: (316)562-3287
    OPERATOR: RON EHRHARDT
       PHONE: (316)562-3287
         FAX: (316)562-3278
   ALTERNATE: ALLEN SIEMER
       PHONE: (316)562-3287
XXXXX
        NAME: FARMLAND INDUSTRIES (COFFEYVILLE REFINERY)
    LOCATION: N LINDEN STREET
  CITY/STATE: COFFEYVILLE, KS 67337
       PHONE: (316)251-4000
    OPERATOR: BOB DOUGLASS
       PHONE: (316)251-3648
          FAX:
   ALTERNATE: REX HEATER
       PHONE: (316)251-6054
XXXXX
         NAME: FARMLAND INDUSTRIES (PHILLIPSBURG)
    LOCATION: N HIGHWAY 183
  CITY/STATE: PHILLIPSBURG, KS 67661
        PHONE: (913)543-5246
    OPERATOR: IVAN L. WAGNER
        PHONE:
          FAX:
   ALTERNATE: LEROY BRAUN
        PHONE: (913)543-5246
XXXXX
         NAME: GOODYEAR TIRE & RUBBER COMPANY (TOPEKA)
  LOCATION: 2000 NW HIGHWAY 24 CITY/STATE: TOPEKA, KS 66618
     PHONE: (913)295-7343
OPERATOR: JOHN TRIMMER
        PHONE:
          FAX:
    ALTERNATE: JIM HORRIGAN
        PHONE: (913)295-7341
XXXXX
         NAME: PHILLIPS PIPE LINE COMPANY (KANSAS CITY)
     LOCATION: 2029 FAIRFAX TRAFFICWAY
 - CITY/STATE: KANSAS CITY, KS 66117
     PHONE: (913)342-0510
OPERATOR: R. D. SMITH
        PHONE:
          FAX:
    ALTERNATE: RICK MALLICOAT
        PHONE: (913)342-0510
```

```
NAME: TEXACO REFINING & MARKETING, INC. (EL DORADO)
   LOCATION: 1401 S DOUGLAS ROAD
 CITY/STATE: EL DORADO, KS 67042
       PHONE: (316)321-2200
   OPERATOR: R. C. SHEFFIELD
       PHONE:
         FAX:
  ALTERNATE: SAFETY SUPERVISOR
       PHONE: (316)321-2200 EXT 256
XXXXX
        NAME: TOTAL PETROLEUM, INC. (ARKANSAS CITY REFINERY)
    LOCATION: 1400 SOUTH M STREET
  CITY/STATE: ARKANSAS CITY, KS 67005
       PHONE: (316)442-5100
    OPERATOR: JACK MARTIN
       PHONE:
         FAX:
   ALTERNATE: TIM D. SODOWSKY
       PHONE: (316)442-6455 (HM)
XXXXX
        NAME: WILLIAMS PIPE LINE COMPANY (TOPEKA)
    LOCATION: 75 HIGHWAY SOUTH RFD 1
  CITY/STATE: WAKARUSA, KS 66546
       PHONE: (913)862-1661
    OPERATOR: AMOS JONES
       PHONE: (913)782-0462
         FAX:
   ALTERNATE: JIM GERLACH
       PHONE: (913)281-2050
XXXXX
        NAME: WILLIAMS PIPE LINE COMPANY (KC FAIRFAX WEST)
    LOCATION: 1090 SUNSHINE ROAD
  CITY/STATE: KANSAS CITY, KS 66115
        PHONE: (913)321-2313
    OPERATOR: TIM ELBERT
       PHONE: (913)281-4804
          FAX:
   ALTERNATE: JIM GERLACH
        PHONE: (913)281-2050
XXXXX
         NAME: WILLIAMS PIPE LINE COMPANY (KANSAS CITY)
     LOCATION: 401 E DONOVAN ROAD
  CITY/STATE: KANSAS CITY, KS 66115
        PHONE: (913)281-0771
     OPERATOR: TIM ELBERT
        PHONE: (913)281-4804
          FAX:
    ALTERNATE: JIM GERLACH
        PHONE: (913)281-2050
```

NAME: WILLIAMS PIPE LINE COMPANY (ST. JOSEPH)

LOCATION: RT. 2 HIGHWAY 36 CITY/STATE: WATHENA, KS 66090

PHONE: (913)989-3448 OPERATOR: RICK GREGG PHONE: (816)872-6417

FAX:

ALTERNATE: JIM GERLACH PHONE: (913)281-2050

XXXXX

NAME: WILLIAMS PIPE LINE COMPANY (OLATHE)
LOCATION: 13745 W 135TH STREET
CITY/STATE: OLATHE, KS 66062

PHONE: (913)782-0462
OPERATOR: AMOS JONES
PHONE: (913)782-0462

FAX:

ALTERNATE: JIM GERLACH PHONE: (913)281-2050

APPENDIX B: REGULATED FACILITIES

MISSOURI

```
NAME: AG PROCESSING, INC. (ST. JOSEPH)
    LOCATION: 900 LOWER LAKE ROAD
 CITY/STATE: ST. JOSEPH, MO 64504
    PHONE: (816)238-1700
OPERATOR: DARYL SYBESMA
       PHONE:
         FAX:
   ALTERNATE: TONY PREHM
PHONE: (816)238-1700
XXXXX
        NAME: AMOCO OIL COMPANY (SUGAR CREEK TERMINAL)
    LOCATION: 1000 N STERLING
  CITY/STATE: SUGAR CREEK, MO 64054
       PHONE: (816)836-6014
    OPERATOR: LYNN TALCOTT
       PHONE:
         FAX:
   ALTERNATE: VERONA BUCHELE
       PHONE: (816)836-6013
XXXXX
        NAME: AYERS OIL COMPANY (CANTON, MO TERMINAL)
    LOCATION: 4TH & GRANT STREET
  CITY/STATE: CANTON, MO 63435
    PHONE: (314)288-4466
OPERATOR: TOM SMITH
       PHONE:
          FAX:
   ALTERNATE: KEVIN CAIN
        PHONE: (314)288-4466
XXXXX
         NAME: BURLINGTON NORTHERN RAILROAD (SPRINGFIELD)
     LOCATION: 3253 CHESTNUT EXPRESSWAY
  CITY/STATE: SPRINGFIELD, MO 65802
        PHONE: (417)864-2169
     OPERATOR: NEIL CALTON
        PHONE:
          FAX:
    ALTERNATE: TERMINAL SUPERVISOR
        PHONE: (417)864-3100
XXXXX
         NAME: CARGILL, INC. (KC SOYBEAN PROCESSING PLANT)
     LOCATION: 2306 ROCHESTER AVENUE
   CITY/STATE: KANSAS CITY, MO 64120
        PHONE: (913)245-0531
     OPERATOR: MICHAEL HOERLE
        PHONE:
          FAX:
    ALTERNATE: DELBERT LONG
        PHONE: (913)245-0533
 XXXXX
```

NAME: CLARK OIL & REFINING CORPORATION (ST. LOUIS) LOCATION: 4070 S FIRST STREET CITY/STATE: ST. LOUIS, MO 63118 PHONE: (314)752-0144 OPERATOR: BILL DAVIS PHONE: FAX: ALTERNATE: STAN BRAULT PHONE: (314)752-0144 XXXXX NAME: CONOCO INC. (RIVERSIDE PRODUCTS TERMINAL) LOCATION: 6700 NW RIVERPARK DR P.O. BOX 14215 CITY/STATE: PARKVILLE, MO 64119 PHONE: (816)587-1442 OPERATOR: RANDY GREEN PHONE: FAX: ALTERNATE: LANCE REVAS PHONE: (816)587-1442 XXXXX NAME: CONOCO INC. (ST. CHARLES PRODUCTS TERMINAL) LOCATION: 4000 MUELLER ROAD CITY/STATE: ST. CHARLES, MO 63301 PHONE: (314)946-9648 OPERATOR: DOYLE STRAIN PHONE: FAX: ALTERNATE: TOM CLAIR PHONE: (314)946-9648 XXXXX NAME: ITAPCO (MISSOURI TERMINAL) LOCATION: 1400 S GIBONEY CITY/STATE: CAPE GIRARDEAU, MO 63701 PHONE: (314)335-6688 OPERATOR: DUSTIN COLLINS PHONE: (314)339-9583 (HM) FAX: ALTERNATE: RICK CLARDY PHONE: (314)833-6598 (HM) XXXXX NAME: J. D. STREETT & CO. INC. (1ST ST FACILITY) LOCATION: 3800 S 1ST STREET - CITY/STATE: ST. LOUIS, MO 63118 PHONE: (314)351-6100 OPERATOR: BILL HOPKINS PHONE: FAX: ALTERNATE: CHIP BAKER PHONE: (314)351-6100

```
NAME: KANSAS CITY POWER & LIGHT (MONTROSE STATION)
    LOCATION: RFD 4 (N SIDE OF MONTROSE LAKE)
 CITY/STATE: CLINTON, MO 64735
       PHONE: (816)885-2284
   OPERATOR: JERRY T. ENGLAND
       PHONE:
        FAX:
   ALTERNATE: OPERATIONS SUPERVISOR
       PHONE:
XXXXX
        NAME: KERR-MCGEE REFINING CORPORATION (ST. LOUIS)
    LOCATION: 4000 KOCH STREET
  CITY/STATE: ST. LOUIS, MO 63129
       PHONE: (314)892-0300
    OPERATOR: RONALD R. SIX
       PHONE: (314)655-4707
         FAX:
   ALTERNATE: KEITH SCHILB
       PHONE: (314)892-0300
XXXXX
        NAME: KERR-MCGEE REFINING CORPORATION (Lagrange)
    LOCATION: 905 N MAIN STREET
  CITY/STATE: LaGRANGE, MO 63448
       PHONE: (314)655-4707
    OPERATOR: RONALD R. SIX
       PHONE: (314)655-4707
         FAX:
   ALTERNATE: ALAN L. BROWN
       PHONE: (314)655-4707
XXXXX
        NAME: KOCH MATERIALS CO. (ELF ASPHALT)
    LOCATION: 6350 KNOX INDUSTRIAL DRIVE
  CITY/STATE: ST. LOUIS, MO 63139
       PHONE: (314)781-6706
    OPERATOR: JAMES E. HUMISTON
       PHONE:
         FAX:
   ALTERNATE: KEITH ARMBRUSTER
       PHONE: (314)781-6706
XXXXX
        NAME: KOCH MATERIALS COMPANY (KANSAS CITY FACILITY)
    LOCATION: 4915 CHELSEA
  CITY/STATE: KANSAS CITY, MO 64130
       PHONE: (816)924-1400
    OPERATOR: JERRY BRYANT
       PHONE: (816)537-6420 (HM)
         FAX: (816)924-0462
   ALTERNATE: KRAIG KINNAMON
       PHONE: (816)537-8746 (HM)
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LOCATION: HIGHWAY 61 S CITY/STATE: NEW MADRID, MO 63869 PHONE: (314)748-2587 OPERATOR: DARRYL G. DARNELL PHONE: (314)748-2362 (HM) FAX: (314)748-2600 ALTERNATE: JON HAMMOCK PHONE: (314)748-2587 XXXXX NAME: MISSOURI PUBLIC SERVICE (GREENWOOD EMERGENCY) LOCATION: 14015 S SMART ROAD CITY/STATE: GREENWOOD, MO 64034 PHONE: (816)537-6895 OPERATOR: MIKE JONAGAN PHONE: FAX: ALTERNATE: AL DANCY PHONE: (816)537-6895 XXXXX NAME: PENNZOIL COMPANY (ST. LOUIS PACKAGING PLANT) LOCATION: 2625 WAGNER PLACE CITY/STATE: MARYLAND HEIGHTS, MO 63043 PHONE: (314)291-1300 OPERATOR: JACK ASH PHONE: FAX: ALTERNATE: BOB BROWN PHONE: (314)291-1300 XXXXX NAME: PETROLEUM FUEL & TERMINAL COMPANY LOCATION: FOOT OF MULLANPHY STREET CITY/STATE: ST. LOUIS, MO 63102 PHONE: (314)621-0522 OPERATOR: RANDEL LEWIS PHONE: (618)452-8160 (HM) FAX: ALTERNATE: DICK BLOCH PHONE: (618)254-1607 (HM) XXXXX NAME: REIDY TERMINAL, INC. LOCATION: 4528 S BROADWAY - CITY/STATE: ST. LOUIS, MO 63111 PHONE: (314)481-8828 OPERATOR: JUSTIN BAKER PHONE: (314)524-6287 FAX: ALTERNATE: RON WUNDERLICH

NAME: KOCH MATERIALS COMPANY (NEW MADRID)

XXXXX

PHONE: (314)355-7765

NAME: SHELL OIL COMPANY (ST. LOUIS PLANT) LOCATION: 239 E PRAIRIE AVENUE CITY/STATE: ST. LOUIS, MO 63147 PHONE: (314)231-2000 OPERATOR: LARRY PADFIELD PHONE: (314)843-8794 (HM) FAX: ALTERNATE: PLANT SUPERVISOR PHONE: (314)842-6067 (HM) XXXXX NAME: SINCLAIR (NEW MADRID TERMINAL) LOCATION: 211 WATER STREET CITY/STATE: NEW MADRID, MO 63689 PHONE: (314)748-2340 OPERATOR: RICHARD PLOESSL PHONE: FAX: ALTERNATE: HAROLD BACKFISCH PHONE: (314)748-2340 NAME: VALVOLINE, INC. (PACKAGING FACILITY)
LOCATION: 3536 S 1ST STREET XXXXX CITY/STATE: ST. LOUIS, MO 63118 PHONE: OPERATOR: JOSEPH GALLAGHER PHONE: (314)351-2741 ALTERNATE: JOSEPH HUMPHREY PHONE: (618)692-6907 XXXXX NAME: WILLIAMS PIPE LINE COMPANY (COLUMBIA) LOCATION: 63 HIGHWAY SOUTH CITY/STATE: COLUMBIA, MO 65201 PHONE: (314)443-1619 OPERATOR: PAUL ROMINE PHONE: (314)443-1610 FAX: ALTERNATE: DALE BUTTERBAUGH PHONE: (314)769-2792 XXXXX NAME: WILLIAMS PIPE LINE COMPANY (PALMYRA) LOCATION: RFD 1 (JUST OFF HWY 61/24) CITY/STATE: PALMYRA, MO 63461 PHONE: (314)769-4802 OPERATOR: PAUL ROMINE PHONE: (314)443-1610 FAX: ALTERNATE: DALE BUTTERBAUGH PHONE: (314)769-2792

NAME: WILLIAMS PIPE LINE COMPANY (SPRINGFIELD)

LOCATION: RR 2 COUNTY ROAD MM CITY/STATE: BROOKLINE, MO 65619

PHONE: (417)865-3489
OPERATOR: C. L. LAWRENCE
PHONE: (417)394-2700

FAX:

ALTERNATE: MIKE ORR

PHONE: (316)365-5491

XXXXX

NAME: WILLIAMS PIPE LINE COMPANY (ST. CHARLES)

LOCATION: 4695 SERVICE ROAD CITY/STATE: ST. PETERS, MO 63376

PHONE: (314)447-6535 OPERATOR: PAUL ROMINE PHONE: (314)443-1610

FAX:

ALTERNATE: DALE BUTTERBAUGH PHONE: (314)769-2792

APPENDIX B: REGULATED FACILITIES

IOWA

NAME: AG PROCESSING, INC. (SERGEANT BLUFF) LOCATION: PORT NEAL ROAD CITY/STATE: SERGEANT BLUFF, IA 51054 PHONE: (712)943-4282 OPERATOR: JEFF ROGERS PHONE: FAX: ALTERNATE: HAROLD MANN PHONE: (712)943-4282 XXXXX NAME: AMOCO OIL COMPANY (BETTENDORF) LOCATION: 75 31ST STREET CITY/STATE: BETTENDORF, IA 52772 PHONE: (319)355-2686 OPERATOR: STEVE E. NOLL PHONE: FAX: ALTERNATE: STEVE SPETH PHONE: (319)355-2686 XXXXX NAME: AMOCO OIL COMPANY (CEDAR RAPIDS) LOCATION: 2092 HIGHWAY 965 NE CITY/STATE: NORTH LIBERTY, IA 52317 PHONE: (319)626-2461 OPERATOR: MERLE PUHRMAN PHONE: (319)626-2461 FAX: ALTERNATE: P. L. McGOVERN PHONE: (319)438-6461 (HM) XXXXX NAME: AMOCO OIL COMPANY (COUNCIL BLUFFS) LOCATION: 829 E SOUTH OMAHA BRIDGE RD. CITY/STATE: COUNCIL BLUFFS, IA 51502 PHONE: (712)366-9461 OPERATOR: NORM NEUERBURG PHONE: FAX: ALTERNATE: GEORGE WEISS PHONE: (712)366-9461 XXXXX NAME: AMOCO OIL COMPANY (DAVENPORT) LOCATION: HIGHWAY 22 CITY/STATE: DAVENPORT, IA 52804 PHONE: (319)324-5276 OPERATOR: JON WERNER PHONE: FAX: ALTERNATE: GARY SEIBEL PHONE: (319)324-5276

NAME: AMOCO OIL COMPANY (DES MOINES) LOCATION: 1501 NW 86TH STREET CITY/STATE: DES MOINES, IA 50325 PHONE: (515)226-4011 OPERATOR: JERRY L. LANDRY PHONE: FAX: (515)226-4025 ALTERNATE: J. D. SMITH PHONE: (515)223-1395 (HM) XXXXX NAME: AMOCO OIL COMPANY (DUBUQUE) LOCATION: HIGHWAY 416 (8 MILES W OF DUBUQUE) CITY/STATE: DUBUQUE, IA 52001 PHONE: (319)583-6401 OPERATOR: JIM A. LABRICE PHONE: FAX: ALTERNATE: W. R. VENTER PHONE: (319)583-3960 (HM) XXXXX NAME: AMOCO OIL COMPANY (OTTUMWA) LOCATION: RURAL ROUTE 4 (3 MILES W ON U.S. 34) CITY/STATE: OTTUMWA, IA 52501 PHONE: (515)684-5456 OPERATOR: GARY W. CLARK PHONE: FAX: ALTERNATE: DON WHEELER PHONE: XXXXX NAME: CARGILL, INC. (CEDAR RAPIDS SOYBEAN PLANT) LOCATION: 411 SIXTH STREET NE CITY/STATE: CEDAR RAPIDS, IA 52402 PHONE: (319)399-4050 OPERATOR: JOE PEANASKY PHONE: (319)399-4048 FAX: ALTERNATE: ROB BOARDMAN PHONE: (319)377-8910 XXXXX NAME: CARGILL, INC. (DES MOINES SOYBEAN PLANT) LOCATION: 3030 E GRANGER AVENUE CITY/STATE: DES MOINES, IA 50306 PHONE: (515)263-3100 OPERATOR: GREG LOFSTEDT PHONE: FAX: (515)263-3117 ALTERNATE: JUSTIN FRIESS PHONE: (515)225-3121

NAME: CARGILL, INC. (MOLASSES LIQUID PRODUCTS DIVISION) LOCATION: HIGHWAY 22 W CITY/STATE: BUFFALO, IA 52728 PHONE: (319)381-2210 OPERATOR: ROBERT METTLER PHONE: FAX: ALTERNATE: A. PEEK PHONE: (319)381-2210 XXXXX NAME: CONOCO INC. (DES MOINES) LOCATION: 4500 VANDALIA ROAD CITY/STATE: PLEASANT HILL, IA 50317 PHONE: (515)262-5454 OPERATOR: BRETT BOWMAN PHONE: (515)964-2611 FAX: ALTERNATE: KELLY MCMILLIAN PHONE: (515)262-8292 XXXXX NAME: KOCH MATERIALS COMPANY (BETTENDORF) LOCATION: 4100 ELM STREET CITY/STATE: BETTENDORF, IA 52722 PHONE: (319)324-3766 OPERATOR: RICH SHERMAN PHONE: (319)359-1304 FAX: ALTERNATE: ALLEN TWIST PHONE: (319)324-3766 XXXXX NAME: KOCH MATERIALS COMPANY (COUNCIL BLUFFS) LOCATION: 2200 RIVER ROAD CITY/STATE: COUNCIL BLUFFS, IA 51501 PHONE: (712)323-3223 OPERATOR: RICHARD TIMMERMEYER PHONE: (402)341-8737 FAX: (712)323-0431 ALTERNATE: STEVE WELCHERT PHONE: (402)341-8737 XXXXX NAME: KOCH MATERIALS COMPANY (DAVENPORT) LOCATION: RT. 2 HIGHWAY 22 W - CITY/STATE: DAVENPORT, IA 52804 PHONE: (319)324-3766 OPERATOR: RICK SHERMAN PHONE: (319)359-1304 FAX: ALTERNATE: ALLEN TWIST PHONE: (319)324-3766

NAME: KOCH MATERIALS COMPANY (DUBUQUE #1) LOCATION: TWELFTH STREET EXTENSION CITY/STATE: DUBUQUE, IA 52001 PHONE: (319)556-1304 OPERATOR: ALAN BERNHAGEN PHONE: FAX: ALTERNATE: DAN GANTENBEIN PHONE: (319)556-1304 XXXXX NAME: KOCH MATERIALS COMPANY (DUBUQUE #2) LOCATION: 200 TERMINAL STREET CITY/STATE: DUBUQUE, IA 52001 PHONE: (319)556-1304 OPERATOR: ALAN BERNHAGEN PHONE: (319)556-1304 FAX: ALTERNATE: DAN GANTENBEIN PHONE: (319)556-1304 XXXXX NAME: KOCH MATERIALS COMPANY (ELF ASPHALT) LOCATION: 900 E RACCOON CITY/STATE: DES MOINES, IA 50309 PHONE: (515)288-1076 OPERATOR: JEFF DYKSTRA PHONE: FAX: ALTERNATE: ROBERT BRAZIE PHONE: (515)848-3817 XXXXX NAME: PHILLIPS PIPE LINE COMPANY (BETTENDORF) LOCATION: 139 33rd STREET CITY/STATE: BETTENDORF, IA 53722 PHONE: (319)355-2654 OPERATOR: GARY PIERSALL PHONE: FAX: ALTERNATE: JERRY PARROTT PHONE: (319)355-2654 XXXXX NAME: SINCLAIR (FT. MADISON) LOCATION: 2010 35th STREET - CITY/STATE: FT. MADISON, IA 52627 PHONE: (319)372-6552 OPERATOR: RICK HUFF PHONE: FAX: ALTERNATE: KEVIN SCHNEIDER

XXXXX

PHONE: (319)372-6552

NAME: THE UNO-VEN COMPANY (BETTENDORF) LOCATION: 312 S BELLINGHAM STREET CITY/STATE: RIVERDALE, IA 52722 PHONE: (319)355-2931 OPERATOR: THOMAS L. JONES PHONE: FAX: ALTERNATE: C. W. HARMON PHONE: (708)818-7254 XXXXX NAME: WILLIAMS PIPE LINE COMPANY (DES MOINES) LOCATION: 2503 SE 43rd STREET CITY/STATE: DES MOINES, IA 50317 PHONE: (515)262-5648 OPERATOR: JOHN RILEY PHONE: (515)262-5648 FAX: ALTERNATE: GREG TARR PHONE: (515)265-3262 XXXXX NAME: WILLIAMS PIPE LINE COMPANY (FT DODGE) LOCATION: RR2 HIGHWAY 20 CITY/STATE: DUNCOMBE, IA 50532 PHONE: (515)543-4563 OPERATOR: JOHN RILEY PHONE: (515)262-5648 ALTERNATE: GREG TARR PHONE: (515)265-3262 XXXXX NAME: WILLIAMS PIPE LINE COMPANY (IOWA TERMINAL) LOCATION: 912 FIRST AVENUE CITY/STATE: CORALVILLE, IA 52241 PHONE: (319)354-3976 OPERATOR: JOHN MARTIN PHONE: (319)354-3976 FAX: ALTERNATE: JEFF BENGE PHONE: (816)284-2077 XXXXX NAME: WILLIAMS PIPE LINE COMPANY (MILFORD) LOCATION: RR 1 HIGHWAY 71 CITY/STATE: MILFORD, IA 51351 PHONE: (712)338-2241 OPERATOR: LORETTA BROBERG PHONE: (712)239-2533 FAX: ALTERNATE: BRAD SANDY PHONE: (402)571-7080

NAME: WILLIAMS PIPE LINE COMPANY (SIOUX CITY)

LOCATION: 4300 41st STREET

CITY/STATE: SIOUX CITY, IA 51108

PHONE: (712)239-2533
OPERATOR: LORETTA BROBERG PHONE: (712)239-2533

FAX:

ALTERNATE: BRAD SANDY PHONE: (402)571-7080

XXXXX

NAME: WILLIAMS PIPE LINE COMPANY (WATERLOO)

LOCATION: 5360 ELDORA ROAD CITY/STATE: WATERLOO, IA 50701

PHONE: (319)988-3269 OPERATOR: PAT SKINNER PHONE: (319)988-3269

FAX:

ALTERNATE: GREG TARR
PHONE: (515)265-3262

APPENDIX B: REGULATED FACILITIES

NEBRASKA

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NAME: BURLINGTON NORTHERN RAILROAD (ALLIANCE)
    LOCATION: 111 W FIRST STREET
  CITY/STATE: ALLIANCE, NE 69301
       PHONE: (308)762-6000
    OPERATOR: TERMINAL SUPERINTENDENT
       PHONE: (308)271-2257
         FAX:
   ALTERNATE: OPERATOR
       PHONE: (308)762-6000
XXXXX
        NAME: BURLINGTON NORTHERN RAILROAD (LINCOLN)
    LOCATION: 801 WEST O STREET
  CITY/STATE: LINCOLN, NE 68528
       PHONE: (402)473-7700
    OPERATOR: WAYNE PORTER
       PHONE: (402)473-7595
   ALTERNATE: SECONDARY COORDINATOR
       PHONE: (402)473-7633
XXXXX .
        NAME: CENTRAL NEBRASKA PUBLIC POWER (CANADAY STEAM)
    LOCATION: ROUTE 2
  CITY/STATE: LEXINGTON, NE 68850
       PHONE: (308)324-4581
    OPERATOR: WILLIAM O. MONTER
       PHONE:
         FAX:
   ALTERNATE: ERIC HIXSON
       PHONE: (308)995-8601
XXXXX
        NAME: CONOCO INC. (LINCOLN PRODUCTS TERMINAL)
    LOCATION: ROUTE 1 FOURTEENTH & SUITILLO RD
  CITY/STATE: ROCA, NE 68430
       PHONE: (402)423-6111
    OPERATOR: VIC HANNAN
       PHONE: (402)423-8839
         FAX:
   ALTERNATE: TODD FUSKA
       PHONE: (402)423-6111
XXXXX
        NAME: CONOCO INC. (NORTH PLATTE)
    LOCATION: W HIGHWAY 1
  CITY/STATE: NORTH PLATTE, NE 69101
       PHONE: (308)532-9533
    OPERATOR: GENE SIEMERS
       PHONE:
         FAX:
   ALTERNATE: DALE CHILDS
       PHONE: (308)532-9533
XXXXX
```

NAME: CONOCO INC. (SIDNEY)

LOCATION: ROUTE 1 E HIGHWAY 30

CITY/STATE: SIDNEY, NE 69162

PHONE: (308)254-3510 OPERATOR: VINCE CALAHAN

PHONE: (308)254-3665 (HM)

FAX

ALTERNATE: EVAN RIDDLE

PHONE: (308)254-2518 (HM)

XXXXX

NAME: UNION PACIFIC RAILROAD COMPANY (BAILEY YARD)

LOCATION: 4601 W FRONT STREET CITY/STATE: NORTH PLATTE, NE 69101

PHONE: OPERATOR: PHONE: FAX:

ALTERNATE: KENNETH R. WELCH PHONE: (402)271-5767

XXXXX

NAME: WILLIAMS PIPE LINE COMPANY (OMAHA)

LOCATION: 2205 N ELEVENTH STREET

CITY/STATE: OMAHA, NE 68110 PHONE: (402)342-5476 OPERATOR: ALAN PAUL

PHONE: (402)342-5476

FAX:

ALTERNATE: BRAD SANDY PHONE: (402)571-7080

APPENDIX B.2

REGULATED PIPELINES

Appendix B.2 gives a listing, provided by the Office of Pipeline Safety (OPS), of the current regulated pipelines that have been reviewed by OPS. Once the remaining regulated pipelines in Region VII have been reviewed, an updated version of this listing will be incorporated.

Seq Operator Name	Zone ID	State/County	D/C Vol.
80 National Cooperative		IA Mills	1350
80 National Cooperative	NCRA ZONE 2	IA Council Bluffs	1350
80 National Cooperative	NCRA ZONE 2	IA Pottawatamie	1350
80 National Cooperative	NCRA ZONE 2	IA Douglas	1350
392 Norco Pipeline, Inc.	MAZON AREA	IA LEE	3650
503 Kaneb Pipe Line Company	KANEB ZONE 4	IA CLAY	628
503 Kaneb Pipe Line Company	KANEB ZONE 4	IA DICKINSON	628
503 Kaneb Pipe Line Company	KANEB ZONE 4	IA LYON	628
503 Kaneb Pipe Line Company	KANEB ZONE 4	IA O'BRIEN	628
503 Kaneb Pipe Line Company	KANEE ZONE 4		628
503 Kaneb Pipe Line Company	KANEB ZONE 4	IA SOUIX	628
564 Williams Pipe Line	OMAHA ZONE	IA WASHINGTON	9 195
Williams Pipe Line	OMAHA ZONE	IA MONONA	91 95
565 Williams Pipe Line	DES MOINES ZONE	IA UNION	4696
565 Williams Pipe Line	DES MOINES ZONE	IA TAMA	4696
566 Williams Pipe Line	DIXON ZONE	IA SCOTT	6054
566 Williams Pipe, Line	DIXON ZONE	IA JOHNSON	6054
567 Williams Pipe Line	MINNEAPOLIS ZONE	IA WORTH	2916
673 ENRON	ZONE G	IA FREMONT	5774
673 ENRON	ZONE G	IA MILLS	577 4
674 ENRON	ZONE H	IA MILLS	6923
674 ENRON	ZONE H	IA MONTGOMERY	6923
676 ENRON	ZONE J	IA MONTGOMERY	5774
676 ENRON	ZONE J	IA POTTAWATOMIE	5774
677 ENRON	ZONE K	IA CASS	5965
6., ENRON	ZONE K	IA ADAIR	5965
677 ENRON	ZONE K	IA MADISON	5965
678 ENRON	ZONE L	IA MADISON	5199

Seq*	Operator Name	Zone ID	State/County	Worst Case D/C Vol.
678	ENRON	ZONE L	IA WARREN	5199
678	ENRON	ZONE L	IA POLK	5199
679	ENRON	ZONE M	IA POLK	8921
679	ENRON	ZONE M	IA JASPER	8921
680	ENRON	ZONE N	IA JASPER	11837
680	ENRON	ZONE N	IA POWESHIEK	11837
681	ENRON	zone o	IA POWESHIEK	10709
681	ENRON	ZONE O	IA IOWA	10709
682	ENRON	ZONE P	IA IOWA	7711
682	ENRON	ZONE P	IA JOHNSON	7711
683	ENRON	ZONE Q	IA CEDAR	8724
683	ENRON	ZONE Q	IA SCOTT	8724
ι.	ENRON	ZONE Q	IA MUSCATINE	8724
684	ENRON	ZONE R	IA CEDAR	8356
684	ENRON	ZONE R	IA SCOTT	8356
684	ENRON	ZONE R	IA MUSCATINE	8356
685	ENRON	ZONE S	IA SCOTT	7584
830	Arco Pipeline Company	HOUSTON-FORT MADISON	IA LEE	2300
855	Amoco	CHICAGO AREA	IA LEE	165000
		KANSAS AREA	IA ADAMS	86500
859		KANSAS AREA	IA APPANOOSE	86500
859		KANSAS AREA	IA DALLAS	86500
859		KANSAS AREA	IA DAVIS	86500
859		KANSAS AREA	IA DUBUQUE	86500
		KANSAS AREA		86500
	Amoco	KANSAS AREA	IA HARRISON	86500
		KANSAS AREA	IA IOWA	86500
85		KANSAS AREA		86500

Seq #	Operator Name	Zone ID	State/County	Worst Case D/C Vol.
 859	Amoco	KANSAS AREA	IA JONES	86500
859	Amoco	KANSAS AREA	IA KEOKUK	86500
859	Amoco	KANSAS AREA	IA LEE	86500
859	Amoco	KANSAS AREA	IA LINN	86500
859		KANSAS AREA	IA MADISON	86500
859	Amoco	KANSAS AREA	IA MILLS	86500
859	Amoco	KANSAS AREA	IA MONONA	86500
859	Amoco	KANSAS AREA	IA PAGE	86500
859	Атосо	KANSAS AREA	IA PLYMOUTH	86500
859		KANSAS AREA	IA POLK	86500
859		KANSAS AREA	IA POTTAWATTAMIE	86500
859	Amoco	KANSAS AREA	IA SIOUX	86500
Ę	Amoco	KANSAS AREA	IA TAYLOR	86500
859	Amoco	KANSAS AREA	IA UNION	86500
859	Amoco	KANSAS AREA	IA WAPELLO	86500
859	Amoco	KANSAS AREA	IA WASHINGTON	86500
859		KANSAS AREA	IA WOODBURY	86500
862	Amoco	TWIN CITIES AREA	IA CLAYTON	53500
862	Amoco	TWIN CITIES AREA	IA DELAWARE	53500
862	Amoco	TWIN CITIES AREA	IA DUBUQUE	5 3500
	Атосо	TWIN CITIES AREA		5 3500
862		TWIN CITIES AREA	IA HOWARD	53500
		TWIN CITIES AREA	IA WINNESHIEK	53500
	Kinley Corporation		IA POTTAWATTAMIE	o
	Koch Pipeline, Inc.	COTTAGE GROVE	IA Worth	17000
644	Koch Pipeline, Inc.		IA Cerro Gordo	17000
623	Koch Pipeline, Inc.	BETHANY 4		9500
623	Koch Pipeline, Inc.			

Seq Operator Name #	Zone ID	State/County	Worst Case D/C Vol.
623 Koch Pipeline, Inc.	BETHANY 4	IA Hamilton	9500
623 Koch Pipeline, Inc.	BETHANY 4	IA Hardin	9500
623 Koch Pipeline, Inc.	BETHANY 4	IA Story	9500
623 Koch Pipeline, Inc.	BETHANY 4	IA Polk	9500
623 Koch Pipeline, Inc.	BETHANY 4	IA Warren	9500
623 Koch Pipeline, Inc.	BETHANY 4	IA Clarke	9500
623 Koch Pipeline, Inc.	BETHANY 4	IA Decatur	9500
21 Mid-America Pipeline	KANSAS-OKLAHOMA	KS MONTGOMERY	5000
21 Mid-America Pipeline	COFFEYVILLE/EL	KS Chautauqua	5000
21 Mid-America Pipeline	COFFEYVILLE/EL	KS Cowley	5000
21 Mid-America Pipeline	COFFEYVILLE/EL	KS Butler	5000
27 Koch Gathering System,	ZONE 2	KS Greenwood	4550
Koch Gathering System,	ZONE 2	KS Sumner	4550
30 Koch Gathering System,	ZONE 5	KS Clark	3200
53 Coastal Corporation	WRIGHT STATION	KS Sedgwick	8820
53 Coastal Corporation	WRIGHT STATION	KS Butler	8820
	WRIGHT STATION	KS Sumner	8 82 0
66 Jayhawk Pipeline Company	AUGUSTA	KS Harvey	1075
66 Jayhawk Pipeline Company		KS McPherson	1075
66 Jayhawk Pipeline Company			1075
66 Jayhawk Pipeline Company		KS Butler	1075
66 Jayhawk Pipeline Company			1075
66 Jayhawk Pipeline Company		KS Cowley	
66 Jayhawk Pipeline Company			
66 Jayhawk Pipeline Company 67 Jayhawk Pipeline Company			
			1750
. Jayhawk Pipeline Company			
67 Jayhawk Pipeline Company			
67 Jayhawk Pipeline Company	CHASE DISTRICT	KS Ellsworth	1750

Seq Operator Name	Zone ID	State/County	Worst Case D/C Vol.
67 Jayhawk Pipeline Company	CHASE DISTRICT	KS Rice	1750
67 Jayhawk Pipeline Company	CHASE DISTRICT	KS McPherson	1750
67 Jayhawk Pipeline Company	CHASE DISTRICT	KS Reno	1750
67 Jayhawk Pipeline Company	CHASE DISTRICT	KS Stafford	1750
67 Jayhawk Pipeline Company	CHASE DISTRICT	KS Pratt	1750
67 Jayhawk Pipeline Company	CHASE DISTRICT	KS Kiowa	1750
68 Jayhawk Pipeline Company	LIBERAL DISTRICT	KS Finney	0
68 Jayhawk Pipeline Company	LIBERAL DISTRICT	KS Haskell	0
68 Jayhawk Pipeline Company	LIBERAL DISTRICT	KS Morton	0
68 Jayhawk Pipeline Company	LIBERAL DISTRICT	KS Stevens	0
68 Jayhawk Pipeline Company	LIBERAL DISTRICT	KS Seward	0
68 Jayhawk Pipeline Company	LIBERAL DISTRICT	KS Meade	0
Jayhawk Pipeline Company	LIBERAL DISTRICT	KS Clark	. 0
79 National Cooperative	NCRA ZONE 1	KS McPherson	930
79 National Cooperative	NCRA ZONE 1	KS Saline	930
79 National Cooperative	NCRA ZONE 1	KS Dickinson	930
79 National Cooperative	NCRA ZONE 1	KS Abilene	930
79 National Cooperative	NCRA ZONE 1	KS Clay	930
79 National Cooperative	NCRA ZONE 1		930
79 National Cooperative	NCRA ZONE 1	KS Marshall	930
79 National Cooperative	NCRA ZONE 1		930
240 Texaco Trading &		KS Butler	15355
240 Texaco Trading &	KANSAS OPERATING	KS Marion	1 535 5
240 Texaco Trading &	KANSAS OPERATING	KS Cowley	15355
240 Texaco Trading &	KANSAS OPERATING	KS Harvey	15355
2 Texaco Trading &	KANSAS OPERATING		15355
240 Texaco Trading &		KS Sedgwick	15355
	KANSAS OPERATING		15355

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Seq #	Operator Name	Zone ID	State/County	Worst Case D/C Vol.
240	Texaco Trading &	KANSAS OPERATING	KS Bourbon	15355
240	Texaco Trading &	KANSAS OPERATING	KS Greenwood	15355
240	Texaco Trading &	KANSAS OPERATING	KS Woodson	15355
240	Texaco Trading &	KANSAS OPERATING	KS Coffey	15355
240	Texaco Trading &	KANSAS OPERATING	KS Anderson	15355
240	Texaco Trading &	KANSAS OPERATING	KS Franklin	15355
240	Texaco Trading &	KANSAS OPERATING	KS Johnson	15355
240	Texaco Trading &	KANSAS OPERATING	KS Wyanotte	15355
240	Texaco Trading &	KANSAS OPERATING	KS Ness	15355
240	Texaco Trading &	KANSAS OPERATING	KS Hodgeman	15355
240	Texaco Trading &	KANSAS OPERATING	KS Rush	15355
240	Texaco Trading &	KANSAS OPERATING	KS Pawnee	15355
:	Texaco Trading &	KANSAS OPERATING	KS Stafford	15355
240) Texaco Trading &	KANSAS OPERATING	KS Rice	15355
240	Texaco Trading &	KANSAS OPERATING	KS Pratt	15355
240	Texaco Trading &	KANSAS OPERATING	KS Kingman	15355
240	Texaco Trading &	KANSAS OPERATING	KS Harper	15355
240	Texaco Trading &	KANSAS OPERATING	KS Barber	15355
24	0 Texaco Trading &		KS Reno	15355
24	0 Texaco Trading &		KS Lyons	15355
24	l Texaco Trading &		KS Barton	10623
24	1 Texaco Trading &		KS Ellis	10623
24	1 Texaco Trading &	KAW DISTRICT	KS Ellsworth	10623
24		KAW DISTRICT	KS Ness	10623
	1 Texaco Trading &		KS Norton	10623
2	Texaco Trading &	KAW DISTRICT		10623
24	1 Texaco Trading &	KAW DISTRICT	KS Rice	10623
24	1 Texaco Trading &			10623

Seq Operator Name	Zone ID	State/County	Worst Case D/C Vol.
241 Texaco Trading &	KAW DISTRICT	KS Rush	10623
241 Texaco Trading &	KAW DISTRICT	KS Russell	10623
241 Texaco Trading &	KAW DISTRICT	KS Trego	10623
500 Kaneb Pipe Line Company	KANEB ZONE 1	KS BUTLER	1951
500 Kaneb Pipe Line Company	KANEB ZONE 1	KS COWLEY	1951
500 Kaneb Pipe Line Company	KANEB ZONE 1	KS HARVEY	1951
500 Kaneb Pipe Line Company	KANEB ZONE 1	KS McPHERSON	1951
500 Kaneb Pipe Line Company	KANEB ZONE 1	KS RENO	1951
500 Kaneb Pipe Line Company	KANEB ZONE 1	KS SEDGWICK	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	KS CLOUD	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	KS McPHERSON	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	KS OTTANA	1951
: Kaneb Pipe Line Company	KANEB ZONE 2	KS PHILLIPS	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	KS REPUBLIC	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	KS SALINE	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	KS SMITH	1951
549 Conoco Pipe Line Company	PONCA CITY-ARKANSAS	KS COWLEY	14252
550 Conoco Pipe Line Company	WICHITA, KANSAS	KS SUMNER	8315
550 Conoco Pipe Line Company	WICHITA, KANSAS	KS COWLEY	8315
550 Conoco Pipe Line Company	WICHITA, KANSAS		8315
550 Conoco Pipe Line Company	WICHITA, KANSAS		8315
561 Williams Pipe Line		KS GREENWOOD	9548
561 Williams Pipe Line	IOLA ZONE	KS WOODSON	9548
561 Williams Pipe Line	IOLA ZONE	KS OSAGE	9 548
561 Williams Pipe Line	IOLA ZONE	KS MONTGOMERY	9548
5. Williams Pipe Line	IOLA ZONE		9 548
562 Williams Pipe Line	KANSAS CITY ZONE	KS DONIPHAN	6100
562 Williams Pipe Line			6100

Seq Operator Name #	Zone ID	State/County	Worst Case D/C Vol.
562 Williams Pipe Line	KANSAS CITY ZONE	KS DOUGLAS	6100
562 Williams Pipe Line	KANSAS CITY ZONE	KS WYANDOTTE	6100
562 Williams Pipe Line	KANSAS CITY ZONE	KS BROWN	6100
667 ENRON	ZONE A	KS ELLSWORTH	6349
667 ENRON	ZONE A	KS LINCOLN	6349
667 ENRON	ZONE A	KS SALINE	6349
668 ENRON	ZONE B	KS OTTAWA	5734
668 ENRON	ZONE B	KS CLOUD	5734
669 ENRON	ZONE C	KS CLOUD	6349
669 ENRON	ZONE C	KS CLAY	6349
669 ENRON	ZONE C	KS WASHINGTON	6349
,	ZONE D	KS WASHINGTON	7499
ENRON	ZONE AA	KS ELLSWORTH	5015
693 ENRON	ZONE AA	KS RICE	5015
693 ENRON	ZONE AA	KS RENO	5015
694 ENRON	ZONE BB	KS McPHERSON	4349
695 ENRON	ZONE CC	KS ELLSWORTH	5015
695 ENRON	ZONE CC	KS RICE	5015
695 ENRON	ZONE CC	KS McPHERSON	5015
696 ENRON	ZONE DD	KS ELLSWORTH	9446
696 ENRON -	ZONE DD	KS MCPHERSON	9446
696 ENRON	ZONE DD	KS SALINE	9446
696 ENRON	ZONE DD	KS DICKINSON	9446
697 ENRON	ZONE EE	KS DICKINSON	9446
697 ENRON	ZONE EE	KS GEARY	9446
6. ENRON		KS WABUNSEE	9446
697 ENRON		KS POTTAWATOMIE	9446
697 ENRON	ZONE EE	KS SHAWNEE	9446

Seq Operator Name	Zone ID	State/County	Worst Case D/C Vol.
697 ENRON	ZONE EE	KS JACKSON	9446
698 ENRON	ZONE FF	KS JACKSON	8212
698 ENRON	ZONE FF	KS JEFFERSON	8212
698 ENRON	ZONE FF	KS ATCHISON	8212
830 Arco Pipeline Company	HOUSTON-FORT MADISON	KS MONTGOMERY	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	KS WILSON	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	KS NEOSHO	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	KS ALLEN	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	KS ANDERSON	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	KS FRANKLIN	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	KS MIAMI	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	KS JOHNSON	2300
Arco Pipeline Company	HOUSTON-FORT MADISON	KS WYANDOTTE	2300
856 Amoco	CUSHING AREA	KS ALLEN	246500
856 Amoco	CUSHING AREA	KS ANDERSON	246500
856 Amoco	CUSHING AREA	KS BOURBON	246500
856 Amoco	CUSHING AREA	KS CHAUTAUQUA	246500
856 Amoco	CUSHING AREA	KS LINN	246500
856 Amoco	CUSHING AREA		246500
	CUSHING AREA	KS NEOSHO	246500
856 Amoco	CUSHING AREA	KS WILSON	246500
857 Amoco		KS BARTON	75000
	DENVER AREA	KS DECATUR	75000
	DENVER AREA	KS DICKINSON	75000
857 Amoco	DENVER AREA		75000
8 Amoco	DENVER AREA	KS ELLSWORTH	75000
857 Amoco		KS FRANKLIN	75000
857 Amoco	DENVER AREA		75000

Seq	Operator Name	Zone ID	State/County	Worst Case
* 				D/C Vol.
857	Amoco	DENVER AREA	KS GOVE	75000
857		DENVER AREA	KS GRAHAM	75000
857	Апосо	DENVER AREA	KS LINCOLN	75000
857	Amoco	DENVER AREA	KS LOGAN	75000
857	Amoco	DENVER AREA	ks lyon	75000
857	Amoco	DENVER AREA	KS MIAMI	75000
857	Amoco	DENVER AREA	KS MORRIS	75000
857	Amoco	DENVER AREA	KS NORTON	75000
857	Amoco	DENVER AREA	KS OSAGE	75000
857	Amoco	DENVER AREA	KS OSBORNE	75000
857	Amoco	DENVER AREA	KS OTTAWA	75000
857	Amoco	DENVER AREA	KS RAWLINS	75000
į.	Amoco	DENVER AREA	KS ROOKS	75000
857	Amoco	DENVER AREA	KS RUSSELL	75000
857	Amoco	DENVER AREA	KS SHERMAN	75000
857	Атосо	DENVER AREA	KS THOMAS	75000
857	Атосо	DENVER AREA	KS TREGO	75000
857	Amoco	DENVER AREA	KS WABAUNSEE	75000
859	Amoco	KANSAS AREA	KS MIAMI	86500
32	Farmland Industries, Inc.			256
33	Farmland Industries, Inc.	=	KS MONTGOMERY	1062
35	Clear Creek, Inc.	PRATT	KS PRATT	0
3	Clear Creek, Inc.	KIOWA	KS KIOWA	0
	7 Clear Creek, Inc.	WALNUT CREEKS	KS NESS	2400
3	Clear Creek, Inc.	SMOKEY HILL	KS TREGO	1476
	Clear Creek, Inc.		KS NESS	700
4	0 National Cooperative	UNRUH	KS MCPHERSON	0
4	l National Cooperative	LINDSBURG/ROXBURY	KS MCPHERSON	864

Seq Operator Name	Zone ID	State/County	Worst Case D/C Vol.
41 National Cooperative	LINDSBURG/ROXBURY	KS SALINE	864
42 National Cooperative	SALINA	KS SALINA	400
43 National Cooperative	ANNELLY	KS HARVEY	0
113 Koch Gathering Systems,	ZONE 1	KS Barber	1272
113 Koch Gathering Systems,	ZONE 1	KS Barton	1272
113 Koch Gathering Systems,	ZONE 1	KS Clark	1272
113 Koch Gathering Systems,	ZONE 1	KS Comanche	1272
113 Koch Gathering Systems,	ZONE 1	KS Edwards	1272
113 Koch Gathering Systems,		KS Ellis	1272
113 Koch Gathering Systems,		KS Ellsworth	1272
113 Koch Gathering Systems.	ZONE 1	KS Graham	1272
113 Koch Gathering Systems,	ZONE 1	KS Hodgeman	1272
Koch Gathering Systems,	ZONE 1	KS Kiowa	1272
113 Koch Gathering Systems,	ZONE 1	KS Mcpherson	1272
113 Koch Gathering Systems,	ZONE 1	KS Osborne	1272
113 Koch Gathering Systems,	ZONE 1	KS Pawnee	1272
		KS Pratt	1272
113 Koch Gathering Systems,		KS Rice	1272
113 Koch Gathering Systems,		KS Rooks	1272
113 Koch Gathering Systems,		KS Rush	1272
113 Koch Gathering Systems,			
113 Koch Gathering Systems,			
113 Koch Gathering Systems,		KS Trego	
114 Koch Gathering Systems,			400
114 Koch Gathering Systems.		KS Gove	400
114 Koch Gathering Systems,	ZONE 2	KS Greeley	400

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Seq Operator Name	Zone ID	State/County	Worst Case D/C Vol.
114 Koch Gathering Systems,	ZONE 2	KS Haskell	400
114 Koch Gathering Systems,	ZONE 2	KS Hodgeman	400
114 Koch Gathering Systems,	ZONE 2	KS Kearny	400
114 Koch Gathering Systems,	ZONE 2	KS Lane	400
114 Koch Gathering Systems,	ZONE 2	KS Logan	400
114 Koch Gathering Systems,	ZONE 2	KS Ness	400
114 Koch Gathering Systems,	ZONE 2	KS Rawlins	400
114 Koch Gathering Systems,	ZONE 2	KS Sherman	400
114 Koch Gathering Systems,	ZONE 2	KS Thomas	400
114 Koch Gathering Systems,	ZONE 2	KS Wallace	400
344 Chase Transportation	KANSAS ZONE 1	KS Butler	4200
344 Chase Transportation	KANSAS ZONE 1	KS Sedgwick	4200
Chase Transportation	KANSAS ZONE 1	KS Reno	4200
344 Chase Transportation	KANSAS ZONE 1	KS Stafford	4200
344 Chase Transportation	KANSAS ZONE 1	KS Barton	4200
344 Chase Transportation	KANSAS ZONE 1	KS Rush	4200
344 Chase Transportation	KANSAS ZONE 1	KS Ness	4200
344 Chase Transportation	KANSAS ZONE 1	KS Lane	4200
344 Chase Transportation	KANSAS ZONE 1	KS Scott	4200
344 Chase Transportation	KANSAS ZONE 1	KS Wichita	4200
344 Chase Transportation	KANSAS ZONE 1	KS Logan	4200
344 Chase Transportation	KANSAS ZONE 1	KS Wallace	4200
344 Chase Transportation	KANSAS ZONE 1	KS Hodgeman	4200
344 Chase Transportation	KANSAS ZONE 1	KS Pawnee	4200
100 Mobil Pipeline Company	REGION 7	KS Rooks	4554 5
1. Mobil Pipeline Company	REGION 7	KS Trego	45545
100 Mobil Pipeline Company	REGION 7	KS Graham	45545
100 Mobil Pipeline Company		KS Sheridan	

Seq Operator Name	Zone ID	State/County	Worst Case D/C Vol.
826 Total Petroleum, Inc.	KANSAS-OKLAHOMA	KS Summer	11998
826 Total Petroleum, Inc.	KANSAS-OKLAHOMA	KS Cowley	11998
826 Total Petroleum, Inc.	KANSAS-OKLAHOMA	KS Marion	11998
826 Total Petroleum, Inc.	KANSAS-OKLAHOMA	KS Butler	11998
240 Texaco Trading &	KANSAS OPERATING	MO Vernon	15355
240 Texaco Trading &	KANSAS OPERATING	MO Platte	15355
553 Conoco Pipe Line Company	MT. VERNON	MO NEWTON	11573
553 Conoco Pipe Line Company	MT. VERNON	MO JASPER	11573
553 Conoco Pipe Line Company	MT. VERNON	MO LAWRENCE	11573
553 Conoco Pipe Line Company	MT. VERNON	MO GREENE	11573
553 Conoco Pipe Line Company	MT. VERNON	MO WEBSTER	11573
553 Conoco Pipe Line Company	MT. VERNON	MO DALLAS	11573
Conoco Pipe Line Company	MT. VERNON	MO LACLEDE	11573
553 Conoco Pipe Line Company	MT. VERNON	MO CAMDEN	11573
553 Conoco Pipe Line Company	MT. VERNON	MO McDONALD	11573
553 Conoco Pipe Line Company	MT. VERNON	MO BARRY	11573
554 Conoco Pipe Line Company	BELLE	MO CAMDEN	11573
554 Conoco Pipe Line Company	BELLE	MO PULASKI	11573
554 Conoco Pipe Line Company		MO MARIES	11573
554 Conoco Pipe Line Company	BELLE	MO GASCONADE	11573
554_Conoco Pipe Line Company	BELLE	MO FRANKLIN	11573
554 Conoco Pipe Line Company		MO WARREN	11573
554 Conoco Pipe Line Company	BELLE	MO ST. CHARLES	11573
554 Conoco Pipe Line Company	BELLE	MO ST. LOUIS	11573
555 Conoco Pipe Line Company	ST. CHARLES-WOOD	MO ST. CHARLES	8445
5 Williams Pipe Line	IOLA ZONE		9548
562 Williams Pipe Line		MO ANDREW	6100
562 Williams Pipe Line			6100

Seq Operator Name	2one ID	State/County	Worst Case D/C Vol.
562 Williams Pipe Line	KANSAS CITY ZONE	MO CLAY	6100
562 Williams Pipe Line	KANSAS CITY ZONE	MO HARRISON	6100
562 Williams Pipe Line	KANSAS CITY ZONE	MO JACKSON	6100
563 Williams Pipe Line	HANNIBAL ZONE	MO MONITEAU	7000
563 Williams Pipe Line	HANNIBAL ZONE	MO BOONE	7000
563 Williams Pipe Line	HANNIBAL ZONE	MO RALLS	7000
698 ENRON	ZONE FF	MO PLATTE	8212
698 ENRON	ZONE FF	MO BUCHANAN	8212
698 ENRON	ZONE FF	MO CLINTON	8212
830 Arco Pipeline Company	HOUSTON-FORT MADISON	MO JACKSON	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	MO RAY	2300
§30 Arco Pipeline Company	HOUSTON-FORT MADISON	MO CARROLL	2300
Arco Pipeline Company	HOUSTON-FORT MADISON	MO CHARITON	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	MO LINN	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	MO MACON	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	MO ADAIR	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	MO KNOX	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	MO SCOTLAND	2300
330 Arco Pipeline Company	HOUSTON-FORT MADISON	N MO CLARK	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	MO RANDOLPH	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	N MO AUDRAIN	2300
830 Arco Pipeline Company	HOUSTON-FORT MADISON	N MO BOONE	2300
859 Amoco	KANSAS AREA	MO ADAIR	86500
859 Amoco	KANSAS AREA	MO ANDREW	86500
859 Amoco	KANSAS AREA	MO ATCHISON	86500
6 Amoco	KANSAS AREA	MO BATES	86500
	KANSAS AREA		86500
859 Amoco	KANSAS AREA	MO CALDWELL	86500

Cog Operator Name	Zone ID	State/County	Worst Case
Seq Operator Name	adde 15		D/C Vol.
859 Amoco	KANSAS AREA	MO CARROLL	86500
859 Amoco	KANSAS AREA	MO CASS	86500
859 Amoco	KANSAS AREA	MO CHARITON	86500
859 Amoco	KANSAS AREA	MO CLARK	86500
859 Amoco	KANSAS AREA	MO CLAY	86500
859 Amoco	Kansas area	MO CLINTON	86500
859 Amoco	KANSAS AREA	MO DAVIESS	86500
859 Amoco	KANSAS AREA	MO GRUNDY	86500
859 Amoco	KANSAS AREA	MO JACKSON	86500
859 Amoco	KANSAS AREA	MO JOHNSON	86500
859 Amoco	KANSAS AREA	MO KNOX	86500
859 Amoco	KANSAS AREA	MO LAFAYETTE	86500
Amoco	KANSAS AREA	MO LEWIS	86500
859 Amoco	KANSAS AREA	MO LINCOLN	86500
859 Amoco	KANSAS AREA	MO LINN	86500
859 Amoco	KANSAS AREA	MO LIVINGSTON	86500
859 Amoco	KANSAS AREA	MO MACON	86500
859 Amoco	KANSAS AREA	MO MARION	86500
859 Amoco		MO MONROE	86500
859 Amoco	KANSAS AREA		86500
859 Amoco	KANSAS AREA	MO PIKE	86500
859 Amoco	KANSAS AREA	MO PUTNAM	86500
859 Amoco	KANSAS AREA	MO RALLS	86500
859 Amoco	KANSAS AREA		86500
859 Amoco	KANSAS AREA		86500
ε Amoco	KANSAS AREA	MO SALINE	86500
859 Amoco	KANSAS AREA	MO SCOTLAND	86500
859 Amoco	KANSAS AREA		86500

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Seq	Operator	Name		Zone ID	Sta	te/County	Worst Case D/C Vol.
859	Amoco			KANSAS AREA	мо	ST CHARLES	86500
859	Amoco			KANSAS AREA	мо	SULLIVAN	86500
821	Explorer	Pipeline	Company	GLENPOOL ARE	EA MO	Newton	48600
821	Explorer	Pipeline	Company	GLENPOOL ARE	EA MO	Jasper	48600
821	Explorer	Pipeline	Company	GLENPOOL ARE	ea mo	Lawrence	48600
821	Explorer	Pipeline	Company	GLENPOOL ARE	ea mo	Dade	48600
821	Explorer	Pipeline	Company	GLENPOOL ARI	EA MO	Green	48600
821	Explorer	Pipeline	Company	GLENPOOL ARI	EA MO	Polk	48600
822	Explorer	Pipeline	Company	WOODRIVER A	rea mo	Polk	27000
822	Explorer	Pipeline	Company	WOODRIVER AL	REA MO	Dallas	27000
822	Explorer	Pipeline	Company	WOODRIVER A	REA MO	Laclede	27000
822	Explorer	Pipeline	Company	WOODRIVER AL	REA MO	Camden	27000
	Explorer	Pipeline	Company	WOODRIVER A	REA MO	Pulaski	27000
822	Explorer	Pipeline	Company	WOODRIVER A	REA MO	Maries	27000
822	Explorer	Pipeline	Company	WOODRIVER A	REA MO	Gasconades	27000
822	Explorer	Pipeline	Company	WOODRIVER A	REA MO	Franklin	27000
822	Explorer	Pipeline	Company	WOODRIVER A	REA MO	St Charles	27000
100	Mobil Pi	peline Co	mpany	REGION 7	мо	Ripley	45545
100	Mobil Pi	peline Co	mpany	REGION 7		Carter	45545
100	Mobil Pi	peline Co		REGION 7		Wayne	45545
100	Mobil Pi	peline Co		REGION 7	МО	Madison	45545
100	Mobil Pi	ipeline Co		REGION 7	МО	Bollinger	45545
100	Mobil Pi	ipeline Co	ompany	REGION 7	мо	Perry	45545
623		peline, In	nc.	BETHANY 4	МО		9500
624	Koch Pi	peline, I	nc.	BETHANY 5	MO	Harrison	9300
- 6	Koch Pi	peline, I	nc.	BETHANY 5	МО	Mercer	9300
	Koch Pi	peline, I	nc.	BETHANY 5	МО		9300
624		peline, I		BETHANY 5		Sullivan	9300

Seq Operator Name	Zone ID	State/County	Worst Case D/C Vol.
624 Koch Pipeline, Inc.	BETHANY 5	MO Linn	9300
624 Koch Pipeline, Inc.	BETHANY 5	MO Macon	9300
624 Koch Pipeline, Inc.	BETHANY 5	MO Randolf	9300
624 Koch Pipeline, Inc.	BETHANY 5	MO Monroe	9300
624 Koch Pipeline, Inc.	BETHANY 5	MO Audrain	9300
624 Koch Pipeline, Inc.	BETHANY 5	MO Montgomery	9300
624 Koch Pipeline, Inc.	BETHANY 5	MO Lincoln	9300
624 Koch Pipeline, Inc.	BETHANY 5	MO St. Charles	9300
501 Kaneb Pipe Line Company	KANEB ZONE 2	NB POLK	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	NB THAYER	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	NB WEBSTER	1951
501 Kaneb Pipe Line Company	KANEB ZONE 2	NB YORK	1951
. Kaneb Pipe Line Company	KANEB ZONE 3	NB BUTLER	703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB CEDAR	703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB COLFAX	703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB CUMING	703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB DIXON	703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB FRONTIER	703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB GOSPER	703
502 Kaneb Pipe Line Company			703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB LINCOLN	703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB MADISON	703
502 Kaneb Pipe Line Company		NB PHELPS	703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB PIERCE	703
502 Kaneb Pipe Line Company			703
502 Kaneb Pipe Line Company	KANEB ZONE 3		703
502 Kaneb Pipe Line Company	KANEB ZONE 3	NB STATION	703
502 Kaneb Pipe Line Company	KANEB ZONE 3		703

Seq	Operator Name	Zone ID	State/County	Worst Case
	Vaneb Dine Line Communication	VALUED FAIR 2	NB YORK	703
502	Kaneb Pipe Line Company	RANES ZONE 3	NB IURK	703
503	Kaneb Pipe Line Company	KANEB ZONE 4	NB CEDAR	628
503	Kaneb Pipe Line Company	KANEB ZONE 4	NB DIXON	628
670	ENRON	ZONE D	NB GAGE	7499
671	ENRON	ZONE E	NB GAGE	6349
671	ENRON	ZONE E	NB JOHNSON	6349
	enron		NB OTOE	6349
	ENRON	ZONE F	NB OTOE	5015
672	ENRON	ZONE F	NB CASS	5015
673	ENRON	ZONE G	NB OTOE	5774
673	ENRON	ZONE G	NB CASS	5774
•	ENRON	ZONE I	NB CASS	6923
	·	ZONE I	NB MILLS	6923
675	ENRON	ZONE I	NB MONTGOMERY	6923

APPENDIX C

- 1. REGION VII RESPONDERS
- 2. EQUIPMENT
- 3. EPA/USCG RESPONSE BOUNDARIES

APPENDIX C.1

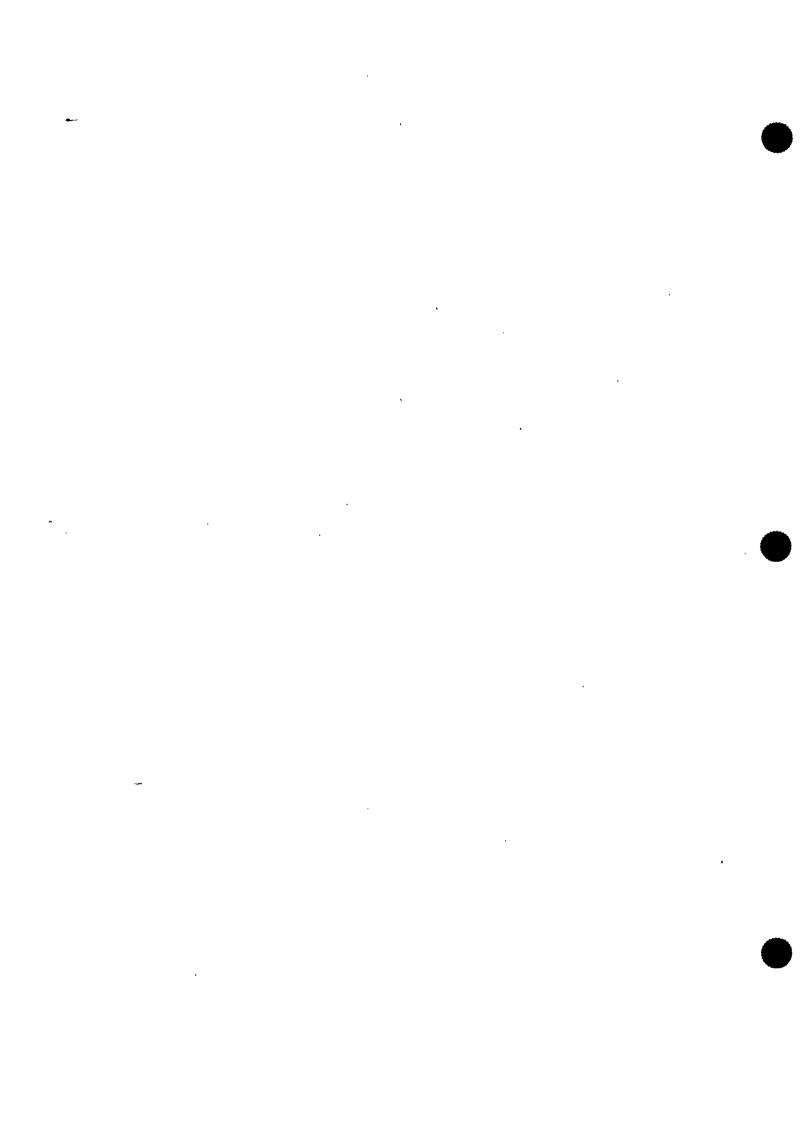
EMERGENCY RESPONDERS

Contractors and responders are listed in this Appendix for reference to be used during an emergency response, and to help regulated facilities review what responders are available to them for contingency planning purposes. A brief explanation of services provided by the special teams listed in this appendix can be found in Section II.L of the Area Contingency Plan.

As updated information is received, it will be added to this appendix.

RESPONSE/EQUIPMENT CONTRACTORS AND CONSULTANTS

The following list of companies was compiled from contractors listed within approximately eighty facility response plans (FRPs) which currently meet significant and substantial harm criteria within EPA Region VII. This is an unconfirmed list with contacts, addresses, and phone numbers being taken directly from the FRPs. This list will be updated as information is confirmed and as new information becomes available.



ST	CONTRACTOR NAME	ADDRESS	CITY/STATE/ZIP	PHONE	CONTACT
	A & M TANK SERVICE			221-0480	
	BAY WEST, INC.			(800)279-0456	DOM ERICKSON
	C.E.E. CO. ENVIRO. SERVICES				JERRY KEMP
	HERITAGE REMED./ENG., INC.			(800)487-7455	GEOFFREY LANGLEY
	OHN ENVIRONMENTAL SERVICE			(800)537-9540	
	PETROASSIST			(800)424-9300	
	RIEDEL ENVIRO. SERVICES, INC.			(800)334-0004	ROBERT KOENTOP
- 1	SUPERIOR EQUIPMENT CO.	•	CARE CANAVERAL CI	644-6000	
	CAPE CANAVERAL MARINE SERV.		CAPE CANAYERAL, FL PORT EVERGLADES, FL		
	DIVERSIFIED ENVIR. SERV., INC		TAMPA, FL		•
	ENVIRO. RECOVERY GROUP, LTD.	•	JACKSONVILLE, FL		
	FLORIDA SPILL RESPONSE CORP.		COCOA, FL		,
	ALLWASTE ENVIRO. SERV. (EIS)		CLINTON, IA	(319)259-2130	HARTY FLEUETTE
	BLACKHAWK FLEET			(319)322-3510	GLEN JOHNSON
IA	CAPTAIN CLEAN		CEDAR RAPIDS, IA	(319)396-7151	
IA	CONST. TECH. & RENED. COMP.	530 RIVER DRIVE BOX 153	PRINCETON, IA 52768	(319)289-5853	DEMMY BENNITT
	DENNIS DIERKS EXCAVATING				DENNIS DIERKS
	EIS INDUST. SERV. (ALLWASTE)		CLIMTON, IA	(319)243-7951	
	ENVIRONARK	422 PERSHING AVE	DAVENPORT, IA 52801	(319)323-0616	JIM NOBBS
	EVANS ENGINEERING		PROT 1158166W 11	(712)366-5834	JEFF EVANS
	HENIGAN CONSTRUCTION		FORT MADISON, IA	(319)372-1784	W4.00 04.00 000
	PAULSON CONSTRUCTION COMPANY QUAD CITY WATER TESTING			(712)323-4073	BOS SLACK
	CLEAN HARBORS, INC.		CHICAGO, IL	(318)289-3373	OUR STACK
	CONST. TECH. & REMED. COMP.	II N MAIN	LEAF RIVER, IL 61047	(815)738-6146	DENNY BERNITT
	HERITAGE REMED. & ENG., INC.		CHICAGO, IL	(800)487-7455	Armei Armetii
	HERITAGE REMED./ENG., INC.	1319 MARQUETTE DR	ROMEOVILLE, IL 60441	(708)378-1600	GEOFFREY LANGLEY
		10G WASHINGTON BOX 862	SOUTH ROXANA, IL 82087-0862	(618)254-4874	
	RIEDEL ENVIRO. SERV., INC.	5233 N PEARL ST	ROSEMONT, IL 60018	(708)671-0061	
	TRIAD COMPANY	1600 MADISON AVENUE	SOUTH ROXAMA, IL 62087	(618)251-4116	
	HERITAGE REMED./ENG., INC.	P.O. BOX 51020	INDIANAPOLIS, IN 46251	(317)243-7475	
KS		P.O. BOX 995	EL DORADO, KS 67402		JOHN BANKS
	GROENDYKE TRANSPORT INC.	1282 C COUTU DADVED	WICHITA, KS	755-1266	
	HAZ-WAT RESPONSE, INC. L.G. PIKE CONSTRUCTION	1203 C SOUTH PARKER 815 W MADISON	OLATHE, KS 66061	(913)782-5151	TER RICCE
KS	OILFIELD TRUCKING SERVICE	757 OIL HILL RD	ARKANSAS CITY, KS 67005 EL DORADO, KS 67042	(316)442-9150	TED BIGGS ALBERT HOGOBOOM
KY		4925 HELLER STREET	LOUISVILLE, KY 40218	(502)473-0638	GRES DAUGHERTY
	PADUCAH MUTUAL ASSIST. ASSOC.		PADUCAH, KY	(002)110 1100	OWER SWEETER
KY	TUCKER ENVIRO. CONSULTANTS	7365 OLD MAYFIELD 'RO	PABUCAH, KY 42003	(502)554-0811	JARICE TUCKER
LA	AMBAR, INC.		LAFAYETTE, LA	•	
LA	- · · · · · ·		NORGAN CITY, LA		
LA	LARCO ENVIRO. SERV., INC.		LAKE CHARLES, LA		
	MARTECH USA, INC.		BROUSSARD, LA		
LA	•		NEW ORLEANS, LA		
LA	THOMPSON ENVIRO. NGMMT., INC. UNIVERSAL ENVIRONMENTAL		NEW ORLEANS, LA	•	
LA Na	BOSTON LINE & SERV. CO., INC.		SULPHUR, LA Boston, na		
			BALTIMORE, ND	•	
MN		FIVE EMPIRE DRIVE	ST PAUL, NH 55103-1867	(612)291-0456	RONDI ERICKSON
MM	KOCH SERVICE INC.	- 			STEVE ERICKSON
MN	OHM CORPORATION	5010 HILLSBORO AVE N	NEW HOPE, NN 55428	(612)531-0987	
MO	ABLE INDUSTRIES, INC.	7151 N MARKET	ST LOUIS, NO 63133	(314)863-8755	
NO	DELTA ENVIRO-TECH, INC.	303 S MAIN STREET	SIKESTON, NO 63801	(314)471-7041	DARRELL PULLER

MO	DOCTOR ROOTER	2138 WOODSON ROAD	ST LOUIS, NO 63114	(314)426-6620	
MO	ENVIRO. SPECIALISTS, INC.	3001 E83rd ST	KANSAS CITY, NO 64132	(816)523-5081	STEVE FORTHEY
MO	GENERAL EQUIPMENT COMPANY			(314)535-9107	
MO.	HERITAGE REMED./ENG., INC.	183 McDONNELL BLYD	ST LOUIS, NO 63042	(314)521-3600	GLENN BORESI
MO	INDUSTRIAL SERVICE INC.	1850 WALTON ROAD	ST LOUIS, NO 63114	(314)423-8822	
MO	KIESEL	4801 FYLER AVENUE	ST LOUIS, NO 63116	(314)351-5500	LARRY GOODEN
MO	MUSSELMAN & HALL CONTRACTORS	4922 BLUE BANKS	KANSAS CITY, NO 64130	(816)861-1234	
MO	O.H. MATERIALS CO.	42 M CENTRAL INDUSTRIAL DR	O'FALLON, NO 63366	(314)272-3303	
MO	RIEDEL ENVIRO.EMERG.SERV. CO	18207 EDISON AVE.	CHESTERFIELD, NO 63005	(314)532-7660	
MO	SUPERIOR EQUIPMENT COMPANY	3283 IVANHOE AVENUE	ST LOUIS, NO 63139	(314)644-6000	
MO	THE KIESEL CO.	4801 FYLER AVE	ST LOUIS, NO 63116	(314)421-0328	GARY RALPH
MO	UNITED PETROLEUM COMPANY			(314)241-3767	
NC	SPECIALIZED MARINE, INC.		WRIGHTSVILLE BEACH, NC		
NE	ARMY CORPS OF ENGINEERS			(402)453-0202	STEPHEN EARL
NE	T & R TRENCHING INC.			(402)331-7998	
NE	WYNNE TRANSPORT SERVICE			(402)342-4001	HANK ALBRECHT
NJ	UNDERWATER TECHNICS, INC.		CAMBEN, NJ		
NY	ISLAND TRANSPORTATION CORP.		WEST BABYLON, NY		
NY	MEG ENVIRO. SERV., INC.		CALVERTON, NY		
QH	CHEMPOWER, INC.		AKRON, OH		
OH	HERITAGE REMED./ENG., INC.	5656 OPPORTUNITY DRIVE	TOLEDO, OH 43612	(419)478-4396	
QH	O.H. MATERIALS INC.	P.Q. BOX 1022	FINDLEY, OH 45840	(419)423-3526	
OK	ACME PRODUCTS CO.	2666 N DARLINGTON	TULSA, OK 74158	(918)836-7184	JAMES 6. DUNCAN
PA	AMERICAN INDUSTRIAL MARINE		ALLENTOWN, PA		
PA	GSM ENVIROMENTAL, INC.		PARKER FORD, PA		
. PA	MCCUTHEON ENTERPRISES, INC.		A PO LLO, PA	•	
TX	- COMPLETE ENVIRO. SERV., INC.		SPRING, TX	•	
TX	GARMER ENVIRO. SERV., INC.		HOUSTOK, TX		
TX	MARLIN ENVIRO./DEL INDUSTRIE	5	GALVESTON, TX		
TX	MILLER ENVIRO. SERV INC.		CORPUS CHRISTI, TX		
ŢX			HOUSTON, TX		
VA	INDUST. WARINE SERVICES, INC	•	NORFOLK, VA		
	•				

Commandant U. S. Coast Guard 2100 Second Street SW Washington, DC 20593-0001 Staff Symbol: (G-MEP) Phone: 202-267-0518

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NAVIGATION AND VESSEL INSPECTION CIRCULAR NO. 12-92

Subj: Guidalines for the Classification and Inspection of O11 Spill.Removal Organizations (OSROs)

Ref: (a) NVIC No. 8-92, "Interim Guidalines for the Development and Review of Vessel Response Plans"

- (b) NVIC No. 7-92, "Interim Guidelines for the Development and Review of Response Plans for Marine Transportation-Related Facilities Including Deepwater Ports"
- 1. PURPOSE. The purpose of this circular is to facilitate the preparation and review of vessel and facility response plans by providing guidance on the classification of oil spill removal organizations. The guidalines propose a method of estimating the capacity of oil spill removal organizations to contain and remove oil from the water and shorelines.

2. BACKGROUND.

a. Section 4202 of the Oil Pollution Act of 1990 (OPA 90) amended section 311(j) of the Federal Water Pollution Control Act (FWPCA) to require the preparation and submission of response plans for all vessels defined as "tank vessels" under 46 U.S.C. 2101 and for certain oil-handling facilities. Because there is a statutory deadline of February 18, 1993 for owners and operators to submit response plans, and because a final rule on submittal of response plans had not been published, the

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- a. (cont'd) Coast Guard issued Navigation and Inspection Circulars (NVICs) Nos. 7-92 and 8-92 (references (a) an (b)). These NVICs provide guillance on the preparation and submission of response plans.
 - Under OFA 90, an owner:or.operator who is: required === b. submit a response plan must, among other things, "identify, and ensure by contract or other means approv by the President: the availability of, private personnel and equipment necessary to remove to the maximum extent practicable a worst case discharge (including a dischar resulting from fire or explosion), and to mitigate or prevent a substantial threat of such a discharge." The magnitude of the investment in specialized equipment fo recovering oil from the water and shorelines, temporari storing it, and transporting it for disposal, and for training sufficient numbers of personnel to remove such discharge, in all foreseeable locations and operating environments, is unprecedented for marine environmental response preparation. The system for assembling, mobilizing, and controlling these resources is extremel complex. To meet the statutory requirements, each response plan must identify the means for accomplishing these massive tasks.

3. <u>DISCUSSION</u>.

Under the guidelines contained in references (a) and () an owner or operator would identify private personnel a equipment sufficient to remove three levels of spills: "average most probable discharge" (AMPD), a "maximum me probable discharge" (MMPD), and a "worst case discharge (WCD). The owner or operator may demonstrate capability to remove those volumes of discharged oil by listing ti available resources and their-capacity to contain. remove, and store the recovered volumes. These resourt include the various types of booms to contain oil indifferent environments and water depths and to:protect shorelines: the types, capacities, and seakeeping. capabilities of skimming and vacuum systems to-recover: .oil from the water and shoralines; and sufficient store capacity to temporarily store recovered oil and ... contaminated debris for transportation and disposal. determine that these resources are-not only availablethat they may be relied upon to operate effectively in. the planned spill environment, prudence may dictate-the the owner or operator inspect the oil spill removal organization's facility; audit the personnel and train records, inventory and inspect equipment. auditmaintenance records, and establish to his or hersatisfaction that the resources are available and

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- 3. a. (cont'd) dependable. Given that no one OSRO is likely to.own or otherwise control sufficient resources to meet all ofra:vessel.or.facility owner's or operator's responsibilities, and that:combinations of different removal organizations and capabilities may be needed, the owner's or operator's obligations are daunting.
 - b. Because, under OFA 90, vessel and facility owners or operators are required to ensure by contract or other-approved means sufficient response capacity to meet their planning responsibilities. OSROs are presented with both a business opportunity and a problem. To acquire contracts with vessel or facility owners or operators in an open market, an OSRO must sell its capabilities and clearly demonstrate that it can meet its prospective customer's response planning needs in the bright light of competition. Advertising its capabilities to many prospective customers may subject the OSRO to repeated inspections by owner's or operator's representatives who may view the resources and capabilities differently.
 - OPA 90 gives the Coast: Guard the responsibility to:review C. and approve response plans. The Coast Guard must review all of the listed resources and response capabilities before the response plan can be finally approved. Coast Guard may also verify that the resources are available and capable of meeting planning requirements. as represented by the owner or operator. This could . involve yet another inspection of the OSRO's facility, personnel and maintenance records, equipment inventory, and performance operability checks. Without a simpler means of identifying adequate and available private response resources, preparation and review of response plans could be extremely inefficient; labor-intensive, and time-consuming for all parties - the owner or operator, the OSRO, and the Coast Guard.
 - d. National guidelines for classifying OSROs:based on standard oil spill volumes would greatly facilitate the selection of OSROs by plan preparers: Such guidelines will also facilitate the Coast Guard's review of individually submitted response plans and assist OSROs in evaluating their:own capabilities to:meet:the needs_of: plan preparers and the Coast Guard. With standard. classifications, plan preparers could better:match their planning requirements to an OSRO's estimated capacity to recover oil. The Coast Guard could more quickly determine whether the removal capacity of the classified OSRO, or combination of OSROs, identified by the plan

NAVIGATION AND VESSEL INSPECTION CIRCULAR NO. 12-9.2.

- 3. d. (cont'd) preparer was sufficient to meet the owner's or operator's planning requirements. JSROs could use these guidelines to present their capabilities and removal capacities more convincingly, facilitating the contracting process with plan preparers:
 - e. Enciosure (1) to this NVIC provides voluntary guidelines by which OSROs may be classified based on standard oil spill removal capacities.

.SOMEON STREET

4. IMPLEMENTATION.

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- Vessel and facility owners or operators who are required to prepare and submit response plans to the Coast-Guard may use the provisions of the enclosed guidance to . identify OSROs with the capacity to:meet their individual planning volume requirements as described in references (a) and (b). Compliance with this NVIC is voluntary and owners or operators need not limit their response resources to OSROs that have been classified by the Coal Guard. Owners or operators remain responsible fordetermining that OSROs identified in their plan are: capable of meeting the various rasponse time raquirament specified in references (a) and (b). The owner or: operator that submits a response plan and identifies OSROs classified in accordance with this guidance should indicate that fact in a letter accompanying the plan submission. Upon notification by the OSRO or the Coast Guard of a change in the OSRO's classification, the own ortoperator should reevaluate his orther response plan and reaffirm its validity as provided in references (a) and (b).
 - the classification process should follow the procedures described in enclosure (1). Classified OSROs whose classification status changes for any reason should notify owners or operators with whom they have contract to provide response resources that the owner's or operators's shillty to meet his or her planning requirements may be affected.
- c. The Coast Guard will classify OSROs, in accordance with the process described in enclosure (1), and will make public a list of:classified OSROs and any changes to existing classifications. The Coast Guard will accept evidence of such classification in lieu of a complete list:of removal equipment; as provided for in reference (a) and (b), as evidence that the owner or operator has identified sufficient capacity to meet his or her planning requirements.

NAVIGATION AND VESSEL INSPECTION CIRCULAR NO. 1 2:

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i. Oil Spill Removal Organizations following this guidance 4. should forward their applications to the Coast Guard at the following address:

> National Strike Force Coordination Center (ATTN: OSRO CLASSIFICATION REVIEW) 1461 U.S. 17 North 27909 Elizabeth City, NC

> > Rear Admiral. U.S. Coast Guard Chief. Office of Marine Safety.

Security and Environmental Prote

Encl: (1) Guidelines for Classifying Oil Spill Removal Organizations (OSROs)

Non-Standard Distribution:

New Orleans (90); Hampton Roads (50); Baltimore (45); Sar C:e Francisco (40); Philadelphia. Port Arthur, Honolulu, Puget Sound (35); Miami, Houston, Mobile, Long Beach, Morgan City (25); Jacksonville, Portland OR (20); Boston, Portland ME, Charleston, Galveston, Anchorage (15); Cleveland (12); Louisville, Mempnis, Paducah, Pittsburgh, St. Louis, Savannah, San Juan, Tampa, Buffalo, Chicago, Detroit. Duluth. Milwaukee. San Diego, Juneau. Valdez (10): Providence, Huntington, Wilmington, Corpus Christi. Toledo, Guam (5).

New York (70); St. Ignace (5); Sturgeon Bay (4). C:m

Except Baltimore, Moriches. D:d

CG Liaison Officer MILSEALIFTCOMD (Code N-7CG), CG D:1 Liaison Officer RSPA (DHM-22), CG Liaison Officer MARAD (MAR-742), CG Liaison Officer JUSMAGPHIL, CG Liaison Officer World Maritime University (1).

NOAA Fleet Inspection Officer (1). U.S. Merchant Marine Academy (1).

Guidalines for Classifying Oil Spill Removal Organizations (OSROs)

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Enclosure (1) to NVIC 12-92

GUIDELINES FOR CLASSIFYING

OIL SFILL REMOVAL ORGANIZATIONS (OSROs)

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Section	В	Classification Process	page	5
Section	С	OSRO Classifications for Various Environments	page	10

Enclosure (1) to: NVIC 1-2:-92:

GUIDELINES FOR CLASSIFYING OIL SPILL REMOVAL ORGANIZATIONS (OSRO)

- Section A. <u>DEFINITIONS</u>. The definitions in this section are provided to assist the rall n understanding the provisions of this NVIC. They are consistent with those included in references (a) and (b).
- 1. Containment boom means boom which is intended to contain oil for recovery by mechanical means. References (a) and (b) (appendix A, table 1) display recommended boom properties for effective use in various operating environments (i.e., river. harbor. Great Lakes. offshore. open ocean, etc.).
- 12. Great Lakes means Lakes Superior; Michigan, Huron, Eria, and Ontario: their connecting and tributary waters; the Saint Lawrence River as far as Saint Regis; and adjacent portareas.
- 3. Inland area means the area shoreward of the boundary lines defined in 46 CFR part 7, except that in the Gulf of Mexico. it means the area shoreward of the lines of demarcation (COLREG lines) as defined in §§ 80.740 80.850 of 33 CFR chapter I. The inland area does not include the Great Lakes or rivers and canals areas.
- 4. Nearshore area means the area extending seaward 12 miles from the boundary lines defined in 46 CFR part 7, except that in the Gulf of Mexico it means the area extending seaward 12: miles from the line of demarcation (COIREG lines) as defined in §§ 80.740 80-850 of 33 CFR chapter I.
- 5. Non-persistent or Group I oil means a petroleum-based oil that, at the time of shipment, consists of hydrocarbon fractions--
 - (a) At least 50% of which by volume, distill at a temperature of 340 degrees C (645 degrees F); and
 - (b) At least 95% of which by volume, distill at a temperature of 370 degrees C (700 degrees F).
- 6. Ocean means the open ocean, offshore area, and nearshore area as defined in this document.
- 7. Offshore area means the area up to 38 nautical miles seaward of the outer boundary of the nearshore area.

Enclosure (1) to MVICT 2-92

- 8. 011 Spill Removal Organization (OSRO) means any person or persons who own or otherwise control oil spill removal resources that are designed for, or are capable of, removing oil from the water or shoreline. Control of such resources through means other than ownership may include leasing or subcontracting of equipment or, in the case of trained personnel. by having contracts, evidence of employment, or consulting agreements. OSROs provide response equipment and services, individually or in combination with subcontractors or associated contractors, under contract or other means approved by the President, directly to an owner or operator of a tank vessel or facility required to have a response plan under 33 U.S.C. 1321(j)(5). OSROs must be able to mobilize and deploy equipment or trained personnel and remove, store. and transfer recovered oil. Persons such as sales and marketing organizations (e.g., distributorships and manufacturer's representatives) that warehouse or store equipment for sale are not OSROs.
 - 9. Open ocean means the area from 38 nautical miles seaward of the outer boundary of the nearshore area, to the seaward boundary of the EEZ.
 - 10. Persistent oil means a petroleum-based oil that does not meet the distillation criteria for a non-persistent oil. For the purposes of this document, persistent oils are further classified based on specific gravity as follows:
- (a) Group II specific gravity less than .85. (e.g. gasoline. kerosene. Nigerian Light Crude)

 (b) Group III specific gravity between .85 and less than
 - .95. (e.g. Arabian and Kuwait Crude)
 (c) Group IV specific gravity .95 to and including 1.0.
 (e.g. Bunker C, #6 Fuel Oil)
 - (d) Group V specific gravity greater than 1.0. (e.g. Carbon Black)
 - 11. <u>Protective boom</u> means boom that is used for deflecting spilled oil. References (a) and (b) (appendix A, table 1) display recommended boom properties for various operating environments (i.e. river, harbor, Great Lakes, offshore, open ocean, etc.).
 - 12. Rivers and canals means bodies of water, including the Intracoastal Waterways and other waterways artificially created for navigation, confined within the inland area that have a project depth of 12 feet or less.
 - 13. Recovery capacity means skimmer or vacuum capacity as calculated in references (a) and (b).

- 14. Temporary storage capacity means, for the purposes orclassification, sufficient storage capacity to securally
 contain two days of planned recovery. Temporary storage,
 capacity may include inflatable bladders, rubber barges,
 certificated barge capacity, or prearranged shore-based;
 storage capacity. It does not include vessels or barges of
 opportunity or shore-based Storage for which no
 prearrangements have been made.
- Section E. CLASSIFICATION PROCESS. Classification is a process for identifying oil spill removal organizations on the basis of their ownership or control of specialized equipment and trained personnel to remove oil from the environment. There are five classes of OSROS (Class A, B; C; D; and E) for each of four marine environments. Classification of an OSRO by the Coast Guard will normally be for a period of:3. years. Review for reclassification may be initiated by either the Coast Guard or the OSRO. Classification does not predict operational. performance or relieve an owner or operator from the requirement to consider response times in the planning process, nor from the responsibility to effectively and promptly remove spilled oil from the environment.

1. APPLICATION FOR CLASSIFICATION.

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- a. Any OSRO may apply for classification. The Coast Guard will classify applicants on the basis of their estimated capacity to remove oil from the marine environment; as. calculated from the information provided in the application and enclosure (1) to references (a) and (b).
- b. An OSRO seeking classification should supply information about its equipment and personnel inventory in a format similar to that provided in appendix (A) of this NVIC. Applicants should provide information in a manner which is clear, concise, and easily read. OSROs may be classified to the levels identified in Section 3. of this enclosure for the environment(s) in which they intend to operate.
- c. The applicant should identify the latitude and longitude of the locations from which oil spill response resources will be mobilized. If resources are available from more than one location, all resources within a twenty five—mile radius may be counted as if available from a single location. The OSRO should list similarly any resources: outside the 25-mile radius. Latitude and longitude will be used to assess the mobilization radius within which the OSRO can meet the response guidelines established in references (a) and (b).

- d. An applicant shall arrest that the factual information provided regarding the applicant's response equipment and personnel is correct to the best of the applicant's knowledge and belief. The applicant shall agree to be visited by Coast Guard personnel for the purpose of verifying the information contained in the application.
- e. The applicant should list separately any discharge removal equipment purchased or contracted for, but not yet delivered when the application is filed. An applicant may be asked to provide written proof of the contracted delivery date of the equipment. Equipment which is contracted for delivery within six months of the date of application will be included toward a provisional classification but listed separately until delivery is confirmed.
- f. A classified OSRO should notify the Captain of the Port (COTF) of the zone in which the OSRO's resources are located of significant changes in response capability that might effect the classification and the OSRO's ability to respond to a spill as planned. A "significant" change is a reduction in the OSRO's classified capacity by a factor of 10% for a period of 48 hours or longer.
- g. An OSRO may submit an application to the following address:

National Strike Force Coordination Center (NSFCC) (Attn: OSRO CLASSIFICATION REVIEW) 1461 U.S. 17 North Elizabeth City, North Carolina 27909.

The NSFCC can be reached by telephone at (919) 331-6000 or by fascimile at (919) 331-6012.

2. REVIEW AND CLASSIFICATION PROCESS.

a. An applicant's resources will be assessed on the basis of the information provided, the process described in this guidance, and the information provided in references (a) and (b) (appendix A to enclosure (1)). Both references identify the formulae for calculating effective daily recovery capacity, operating parameters for skimmers, and minimum guidelines for booms. When assigning OSROs to one or more response classes, the quantity of equipment, its designed purpose, the planning capacity of the resources identified in the application, and the number of trained response personnel will be considered. Incomplete applications will be returned to the applicant immediately with an explanation of the deficiency.

b. After completing the review of the information provided. by the applicant, the Coast Guard will classify the COSRO and issue an interim letter of classification identifying the quantity and calculated capacity of the critical resources. When the Coast Guard has conducted a familiarization visit it will issue a final letter of classification that is valid for a period of three years from the date of issuance.

3. INSPECTION AND VERIFICATION:

- a. The Coast Guard reserves the right to conduct inspection visits to verify that the OSROs inventory of equipment and trained personnel accurately reflects the information provided in the application. The inspection team may include members of the National Strike Force, the local Marine Safety Office (MSO), and other Coast Guard units. The visit will also allow U.S. Coast Guard personnel to become acquainted with the organizations with which they will work in the event of a spill.
- b. The Coast Guard may inspect the OSRO's equipment and personnel inventory and audit appropriate records. Any such audit will be a quality assurance check of the equipment and trained personnel and should not be construed to be a guarantee of performance. If the OSROs inventory of equipment and personnel does not accurately reflect the information provided in the application; the Coast Guard will withdraw the classifiction letter and reclassify the OSRO to a level which appropriately reflects its inventory of resources.
- c. The OSRO should ensure that its equipment is in good operating condition, the preventive maintenance is performed as recommended by the manufacturer, that equipment is transportable, and that there is compatibility between system components. Equipment that is inoperable, not mobile or transportable, or that has incompatible system components may not be counted toward overall removal capacity for the purposes of classification. The verification team may consider, among other conditions, the following:

(1) Booms:

- (a) Overall condition
- (b) Evidence of ownership, lease, or subcontract
- (c) Type and quantity
- (d) Compatibility of: connectors
 - (e) Number and adequacy of anchors.

Enclosure (1) to NVIC 12-92

- (f) Transportability
- (2) Recovery Devices:
 - (a) Skimmers and vacuum trucks
 - (b) Evidence of ownership, lease, or subcontract
 - (c) Type and throughput capacity
 - (d) Compatibility of components (hoses, suction and skimmer head, couplings, connectors, etc.)
 - (e) Operability and maintenance
 - (f) Condition of the prime mover
- (3) Temporary Storage Devices:
 - (a) Evidence of ownership, lease. or subcontract
 - (b) Capacity (twice daily recovery capacity)
 - (c) Inspected and maintained in accordance with manufacturer's recommendations
 - (d) Contracted barges with current certificates
 - (e) Prearranged shore-based storage capacity
- (4) Boats:
 - (a) Sufficient numbers of trailers, outboard motors and USCG-required safety equipment (life jackets, lights, etc.)
 - (b) Types and number of boats appropriate to the environment of the classification
- (5) Records:
 - (a) Equipment clearly marked for identification
 - (b) Records supporting -laims of ownership, lease, or subcontract
 - (C) Complete maintenance records reflecting condition of the equipment
- (6) Other:
 - (a) Command, control, and communications.
 equipment should be available and adequate to
 the planned response

Enclosure (1) to NVIC 1:2-9.2

- (b) Dispersants and dispersant application equipment should be maintained, ready for use, and adequate to the planned task
- (c) Oil-water separators considered for optimizing. storage capacity
- (d) Other major equipment to facilitate removal of-
- (e) Tracking equipment and/or arrangements for helicopter aviation should be noted
- (f) Lighting equipment, generators, etc. should beavailable (or arranged for) if: the OSRO claims that it can work in darkness
- d. Prior to the Coast Guard's visit, the OSRO should check personnel records and subcontracting or consulting agreements to verify the number and availability of trained personnel listed in the application. Minimum training should include that required by 29 CFR 1910.120 (HAZWOPER). The numbers of personnel may vary from one OSRO to another, depending upon unique needs, classification, and the requirements of major equipment: However, the OSRO may use the following schedule to estimate the number of trained personnel needed to accomplish certain response tasks:
 - (1) Boats: 2-people per boat
 - (2) Boom deployment: 2-5 people per 1000' of boom, depending upon overall height, weather, current; etc. (probably 2 in harbor environments and 5 in open ocean or high current)
 - (3) Skimmers: 1-3 people per skimmer, depending on configuration and operating requirements
 - (4) Storage devices: At least 1 person per storage device
- e. The OSRO should be prepared to demonstrate the readiness of its personnel resources, including the following:
 - (1) Records should verify that training for oil spill response is in accordance with the requirements of 29 CFR 1910.120 (HAZWOPER).
 - (2) The number of trained personnel employed, subcontracted, or gained through consulting agreements should equal the resources identified bythe OSRO in the application.

Enclosure (1) to NVIC 12-92

- (3) There should be a demonstrated capability to train sufficient numbers of "surge" personnel in the time allowed by the response classification for which the OSRO has applied.
- Section C. <u>CLASSIFICATIONS OF OSROS FOR RESPONSE TO SPILLS IN VARIOUS ENVIRONMENTS.</u>

RIVER AND CANAL ENVIRONMENTS.

The minimum standards for classifying OSROs for planned response to spills in a rivers and canals environment are listed below and summarized in table 1. Basic equipment design parameters for planned response to spills in a rivers or canals environment are summarized in references (a) and (b) and will be considered in classifying an OSRO for response in these environments.

a. Class A - 50 Bbls/day Recovery

- (1) Containment boom: 2,000 feet minimum
- (2) Protective boom: 2,000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc.): 50 Bbls/day of planned recovery capacity
- (4) Recovered oil storage: Minimum 100 Bbls of temporary storage capacity

b. Class B - 1.250 Bbls/day Recovery

- (1) Containment boom: 4,000 feet minimum
- (2) Protective boom: 4,000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc.):
 Minimum 1,250 Bbls/day of planned recovery capacity
- (4) Recovered oil storage: Minimum 2,500 Bbls of. temporary storage capacity

c. Class C - 1.500 Bbls/day Recovery

- (1) Containment boom: 4,000 feet minimum
- (2) Protective boom: 10,000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc.):
 Minimum 1,500 Ebls/day of planned recovery capacity
- (4) Recovered oil storage: Minimum 3,000 Bbls of temporary storage capacity



ecology and environment, inc.

CLOVERLAAF BUTTONE METONE, CHELANDERAR CANSAS 66202, TEL. 913/432-9961

International Specialists in the Environment
(1) Containment boom: 4,000 fast minimum.

- (2) Protective boom: 15.000 feet minimum:
- (3) Oil recovery equipment (skimmers, vacuums, etc.): Minimum 3,000 Bbls/day planned recovery capacity
- (4) Recovered oil storage: Minimum 6,000 Bbls of temporary storage capacity

e. Class E'- 6.000 Bbls/day Recovery

- (1) Containment boom: 4,000 feet minimum
- (2) Protective boom: 22,000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc.):
 Minimum 6,000 Bbls/day planned recovery capacity
- (4) Recovered oil storage: Minimum 12,000 Bbls of temporary storage capacity

2. NEARSHORE OR INLAND ENVIRONMENTS.

The minimum standards for classifying an OSRO for planned response to spills in a nearshore or inland environment are listed below and summarized in table 1. Basic equipment design parameters for planned response to spills in a nearshore or inland environment are summarized in references (a) and (b) and will be considered in classifying an OSRO for response in these environments.

a. Class A - 50) Bbls/day Recovery

- (1) Containment boom: 2,000 feet minimum
- (2) Protective boom: 6,000 feet minimum
- (3) Oil recovery equipment (skimmers; vacuums, etc.):
 50 Bbls/day planned recovery capacity

....

(4) Recovered oil storage: Minimum 100 Bbls of temporary storage capacity

b. Class B - 1.250 Bbls/day Recovery

- (1) Containment boom: 6,000 feet minimum
- (2) Protective boom: 6;000 feet minimum

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Enclosure (1) to NVIC 12-92

- (3) Oil recovery equipment (skimmers. vacuums. etc.):
 Minimum 1.250 Bbl/day planned recovery capacity.
- (4) Recovered oil storage: Minimum 2,500 Bbls temporary storage capacity

c. Class C - 10.000 Bbls/day Recovery

- (1) Containment boom: 12.000 feet minimum
- (2) Protective boom: 12.000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc.):
 Minimum planned recovery capacity of 10,000 Bbls/day
- (4) Recovered oil storage: Minimum 20,000 Bbls temporary storage capacity

d. Class D - 20,000 Bbls/day Recovery

- (1) Containment boom: 18.000 feet minimum
- (2) Protective boom: 18.000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc.):
 Minimum planned recovery capacity of 20,000 Bbls/day
- (4) Recovered oil storage: Minimum 40,000 Ebls temporary storage capacity

e. Class E - 40.000 Bbls/day Recovery

- (1) Containment boom: 24.000 feet minimum
- (2) Protective boom: 24,000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc.):
 Minimum planned recovery capacity of 40,000 Bbls/day
- . (4) Recovered oil storage: Minimum 80,000 Bbls of temporary storage capacity

3. GREAT LAKES ENVIRONMENT.

The minimum standards for classifying an OSRO for planned response to spills in a Great Lakes environment are listed below and summarized in table 1. Basic equipment design parameters for planned response to spills in a Great Lakes environment are summarized in references (a) and (b) and will be considered in classifying an OSRO for response in this environment.

a. Class A - 50 Ebls/day Recovery

Enclosure (1) to MVIC 12 - 9

- (1) Containment boom: 2,000 feet minimum
- (2) Protective boom: 6,000 feet minimum
- (3) Oil recovery equipment (skimmert. vacuums, etc. : 50 Bbls/day planned recovery capacity
- (4) Recovered oil storage: Minimum 100 Bbls of temporary storage capacity

b. Class B - 1.250 Bbls/day Recovery

WHITE PHONE WAS AND

- (1) Containment boom: 6,000 feet minimum
- (2) Protective boom: 6:000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc:):
 Minimum 1,250 Bbl/day planned recovery capacity.
- (4) Recovered oil_storage: Minimum 2,500 Bbls temporary storage capacity

c. Class C'- 5:000 Bbls/day Recovery

- (1) Containment boom: 12,000 feet minimum
- (2) Protective boom: 12,000 feet minimum
- (3) Oil recovery equipment (skimmers, vacuums, etc.):
 Minimum planned recovery capacity of 5,000 Bbls/day
- (4) Recovered oil storage: Minimum 10,000 Bbls storage capacity

d. Class D - 10.000 Bbls/day Recovery

- (1) Containment-boom: 18:000 feet-minimum
- (2) Protective boom: 18,000 feet minimum
- (3) Oil recovery equipment (skimmers; vacuums, etc.):
 Minimum planned recovery capacity of 10,000 Ebls/day
- (4) Recovered oil storage: Minimum 20,000 Bbls temporary storage capacity

e. Class E'- 20.000 Bbls/day Recovery

- (1) Containment-boom: 24,000 feet-minimum
- (2) Protective boom: 24,000 feet minimum

Enclosure (1) to NVIC 12-92.

- (3) Oil recovery equipment (skimmers. vacuums. etc.):
 Minimum planned recovery capacity of 20,000 Bbls/day
- (4) Recovered oil storage: Minimum 40,000 Ebls of temporary storage capacity

3. OFFSHORE AND OPEN OCEAN ENVIRONMENTS.

The minimum standards for classifying an OSRO for planned response to spills in an offshore or open ocean environment are listed below and summarized in table 1. Basic equipment design parameters for planned response to spills in an offshore or open ocean environment are summarized in references (a) and (b) and will be considered in classifying an OSRO for response in these environments.

a. Class A - 50 Ebls/day Recovery

- (1) Containment boom: 4,000 feet minimum
- (2) Protective boom: 6,000 feet minimum for offshore environment, none for open ocean
- (3) Oil recovery equipment (skimmers, vacuums, etc.): 50 Bbls/day planned recovery capacity
- (4) Recovered oil storage: Minimum 100 Ebls of temporary storage capacity

b. Class B - 1.250 Ebis Recovery

- (1) Containment boom: 8,000 feet minimum
- (2) Protective boom: 8,000 feet minimum for offshore environment, none for open ocean
- (3) Oil recovery equipment (skimmers, vacuums, etc.):
 Minimum 1,250 Bbls/day recovery capacity (half the planning volume)
- (4) Recovered oil storage: Minimum 2,500 Ebls of temporary storage capacity

c. Class C - 10.000 Bbls/day Recovery

- (1) Containment boom: 12. J feet minimum
- (2) Protective boom: 12,000 feet minimum for offshore environment, none for open ocean
- (3) Oil recovery equipment (skimmers, vacuums, etc.): Minimum 10,000 Ebls/day planned recovery capacity

Enclosure (1) to NVIC 12-92.

(4) Recovered oil storage: Minimum 20:000 Ebls/day of temporary storage capacity

d. Class D - 20,000 Bbls/day Recovery

- (1) Containment boom: 18,000 feet minimum
- (2) Protective boom: 18,000 feet minimum for offshore environment, none for open ocean
- (3) Oil recovery equipment (skimmers, vacuums, etc:):
 Minimum 20,000 Bbls/day recovery capacity
- (4) Recovered oil storage: Minimum 40,000 Bbls of. temporary storage capacity

e. Class E - 40.000 Bbl/day Recovery

- (1) Containment boom: 24,000 feet minimum
- (2) Protective boom: 24,000 feet minimum for offshore environment, none for open ocean
- (3) Oll recovery equipment (skimmers, vacuums, etc.): Minimum 40,000 Bbls/day recovery capacity
- (4) Recovered oil storage: Minimum 80,000 Ebls of temporary storage capacity

BESOURCE QUANTITY HININGHS: FOR OSED CLASSIFICATIONS

		CLASS_B	GI.ASS C	CLASS_D	CLASS . K
RESOURCE GAILGORY BY ENVIRONMENT		•			
Containment Boom/Protective Boom (Rivers and Canals Hearshore, Inland Great Lakes Offshore Open Ocean**	2/6 2/6 4/6 4/	6/6 6/6 8/8 8/	4/10 12/12 12/12 12/12	4/16 18/18 18/18 18/18	4/22 24/24 24/24 24/24 24/24
Effective Daily Recovery Capacitie 'Rivers and Canals (202)' Hearshore, Inland (202) Great Lakes (202) Offshore (102) Open Ocean (None)	• (Barrels pe 50 ' 50 50 50 50 50	r day) (7 re 1,250 1,250 1,250 1,250 1,250	quired to be Shall 1.500 10.000 5,000 10,000 10,000	ow Draft Capable 1,000 20,000 10,000 20,000 20,000	6.000 40.000 20.000 40.000 40.000
Oil Storage Capacity (Barrels) (2 Rivers and Canals (202) Hearshore, Inland (202) Great Lakes (202) Offshore (102) Open Ocean: (None)	required to 100 100 100 100 100	be Shallow Dr 2,500 2,500 2,500 2,500 2,500	aft Gapable)	6.000 40.000 20.000 40.000 40.000	12.000 80.000 40.000 80.000 80.000

^{*} See Enclosure (1) to HVICs 7-92 or 8-92 for a complete description of resource requirements for response

^{**} Protective Boom not required for Open Ocean environments.

** Shallow draft minimums refer to requirements that a certain minimum portion of equipment be capable of operating in water depths of 6 feet or less. Note that response planning for AMPD and HMPD size applies requires that all equipment be capable of operating in the applicable environment.

Appendix A

RECOMMENDED APPLICATION FORMAT FOR CLASSIFICATION AS AM. OIL SPILL REMOVAL ORGANIZATION (OSRO)

Name of OSRO:			
Primary Contact:		Telephone #:(Facsimile #:(
Mailing Address:			
	•		
	in section 2, para elfication is sought		enclosure
Latitude	<u> </u>	North.	
Longitude	o· ,	West	
		•	
following information	and equipment works on for each response	location:	# ;
Containment boom:		<u>Owned</u>	Under- Contract
-	River, harbor		ftft
18-42" > 42 "	Nearshore Ocean		ft ft ft ft
Protective boom:			:5 *5
6-18" 18-42"	River, harbor: Nearshore		ft:ft ft:ft
number of personnel	For each category a with HAZWOPER trainable through subcont	ning who are: f	ull-tira-
Supervisors Technicians/Operato	Full Time:	Part Tim Part Tim	e:

Enclosure (1) to NVIC 12-92.

EFFECTIVE DAILY RECOVERY CAPACITY available	at this location:
Shallow Water Capable:BPD.	Total:BPD.
	····
TEMPORARY STORAGE CAPACITY available at-this	location:
Shallow Water Capable:BPD.	Total: BPD.
andithm warst cohonts.	

BOATS: The number and type of vessels for use in oil spill response, in each environment for which classification is sought, should be listed in the order of increasing size (i.e., length, displacement, etc).

REMARKS: Include any comments including limitations on the availability or use of the above equipment. Equipment contracted for but not yet delivered could be identified here and the contracted delivery date noted.

SIGNATURE AND UNDERSTANDING REGARDING INSPECTION BY COAST-GUARD PERSONNEL: An officer or senior official of the OSRO should. include a signed statement with the application, attesting to the validity of the information provided. Coast Guard personnel may visit the OSRO and verify that the resources listed in the application exist as represented.

OIL SPILL REHOVAL ORGANIZATION CLASSIFICATION HORKSINET:

MECHANICAL RECOVERY SYSTEMS

This workshoot summerises the oil recovery capabilities of an OSIO at a particular totation. A recovery eyetam includes abinners or ensum systems, including scopetible pumps, power pechs, bests, house, etc. accessory for the dystem to redoor oil. List all operable systems owned by your organization by location. The listing should show sufficient equipment to support the claim of total focusory capacity. For dystem Recovery late [388], see the throughput rate in Gallens for Minute [GPM] for the complete system so listed by available house, pumps, connectors, etc. using semufacturers data whenever appropriate. To calculate total Effective polly Recovery Capacity [78980], use the formula listed in section 6.2 of appendix 8 to enclosure [1] of MVICe 7-91 or 8-92. If you use the alternative method listed in section 6.3 of that some references, include the information required by section 6.5. List the number of trained parasonnel required to sparse each system. List the amount of recovery capacity capable of Sparsting in water dapths of sin fact or less.

TYPE	DESCRIPTION OF SYSTEM (Include Make, Madel of all major components)	988 (0PH)	TEDEC (Bble)	8 of Systems	LABOR: shilled/ Unchilled	Shellow Water Copable?
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	·					
			•		/	
	·				/	
	TPER: 3 VESSEL-HOUNTED BOW SKINNER 3 VESSEL-HOUNTED SEDE BERNHER 1 SHEEPERE BRANCOT FRANK BERNER		TOTALS			

OIL SPILL REMOVAL ORGANIZATION CLASSIFICATION WORKSINET:

TEMPORARY STORAGE SYSTEMS

This form summarises the temporary storage capabilities of an OSRO. Storage systems include bladders, inflatable barges, tank barges. If here happer barges, tanks, etc. 'Meta: Response flors require a cartain percentage of storage systems to be challed water espable. Therefore, the assumt that is challed water capable should be noted.

	DESCRIPTION OF STORAGE SYSTEM (location if fixed elte)		
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_ -		961-	
_ -		Db1+	
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	1 Dracone or Blodder 2 Portable fanh	Phle	

4

3 Darge

5 Other

4 Internal Tenke on Vessel

OSRO Classification

· Underweer Technics, inc.

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RC

Level D

A&A Cooker Polistica Cleanup Tampe, FL - Delaware Bay and River Concerns Leves, OZ cy Environmental Services. W HY IN Environmental Recovery Group. lad_ Atheric Service, PL IN · Florida Spili Response Corporation Cocca. FL I/N industrial Cleanurs, Inc. & Associates Gulf Cost Respondens Varwego, LA 0/00 · Karis Marion Service Bayonne. NJ NC. Level C American industrial Marine Services Fieldeld NI IN · Gerner Environmental Services Housen, TX •GSM Enveronmental: Inc. Valley Forge, PA • Guardian Environmental Services Beer. DE Herizge Removation/Engineering. ine. Romeuville, IL IN • Ken's Mesine Service Bayonne. Nj M Miller Environmental Group, Inc. Calvenon NY LN distion Services Corp. -OHM Reme Plediay, OH IN. GL OII Spill Service Center

· Underwater Technics, inc. CAMPAGE, N Westerowa Environmental Group CARCOMOUNT, PA Zevel B • Acese Process Co. Tules. OK IVC. UN Bay West, inc. J. Paul, MN **V**C · Clean America. inc. Bakimore, MD P/C Class Cases Say Portions, ME IN · Clean Venners, inc. Perts Amboy, NJ IN · Comus Christ Ares Of Spill **Asset** Corpus Christi. IX NEIN Crowley Environmental Services See just PR M Cyn Of Corporation AM ,exen RE IN Directalist Environmental Services. Inc. Tables. FL IC, IN **Environme** esi Producta & Services Syracuse, MY GL, L/N · Questian Ecylenneseni Services Beer. DE inland Voter Response Network, Humangara, WV Pacific Afflictes Environment Engineering, inc. Directs, CA KLIN Pacific Environ si Corporation (DBA PENCO) NC IN See Spiil South, Inc. St. Peterstrung, PL I/C, I/N Spill Response, inc. Edna, IX R/C Thompson Environmental Mgr., New Orleans, LA M Level A AAA OU Polission so

Bomon Line and Service Co. . KLIN land Processon Services . Higher Heights, OSI LE IN CENAC Environment House, LA 1/6 · Clean America, Inc. Beltimore, ACD IN •Common Enviro edicals (Y Zan IVE IN Courses Where Control Cospens Toloria, CH NC. IN. GL Environment Equipment, Inc. House. LA IC IN Marson USA Inc. I/C I/N Miller Restinantament Services . Contras Christ, TX NC IN Of Recovery Company, toc. Mobile, I.A. NCIN · Petrochem Accovery Services. Norfolk, YA KC Robert Environment ni Services . New Odesse, LA . NC, L'N Seasons Court Services, inc. Portione, ME I/C I/N *Sattlenet Response and . Remotestion, i.e. Winterco. NC EC IN So. Cal. Ship Servicus -Long Beach, CA VN • Split Recovery of Indian Indianaporis, IN 2/6 Response, ion. . - 1X IN Tractide Marine Corporatio Others, CA 1/N tion Of inc. Prevention. SI RAC, VN

R/C: Rivery Cănais:
(Alt Inland Neaumore:
(IOC: Offshore Open Octan GUT l'est Lakasai.
); Final Classification received

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Southernoon, UK I/N, GL, D/OO

So, Cal. Ship Services

Long Bosco. CA

New Odeans. LA

· Thompson Environmentsi Mgt.

loog island City, NY

Events

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(SNAME) Annual Meeting is an international forum for presenting and discussing lectroical papers on naval architecture and manne engineering subjects. The theme of the 1994 meeting is "Ship Design and Operation in Harmony wait the Environment." A symposium held in commercion with the Anomai Meeung will address environmental issues desire with design, retrofit. Operation. poliution control technologies, and environmentsi regulatory compliance. To make a presentation at the Mecung's Technical Program. senc 2 100-500 word propossi and a tentative outline to the Publications Coordins. for, SNAME, 601 Payons Avenue, Jersey City, NJ 07306. Telephone (201) 798-4800: Fax (201) 798-4975. Desclines are: absuract, December 15, 1993; smooth draft for Papers Comminee approvai. May 15, 1994: camera-ready copy for publication, August 13, 1994.

> Listed on the following pages are Oil Spill Re moval Organizations (OSROU that have been ... granted Interim and Final Classification by the !! National Strike Force Coordinating Centers (NSFCC) as of Navember 8, 1993. A builet (*) Indicates that = Final Classification has: been received via on-site: inspections by USCG Classification categories are assigned according to the organization's recov ery canacity. Level & represents the highest recovery capacity, and Level A represents the 3 lowest recovery capacity. For additional information

OSRO Classification

Level & ABA CORES POSITION CHANGO me. A. ive

AMELIA VOE MOD. IOC. Belle Classe, LA EVE I'N

Alyenius Pipeline Service Co. Veldez, AK I/N, 0/00

· American Industrial Merica N 1/C

Connect. CA NE IN OVO

هفته جعن TI, IX IVE VN

· Close Contai Venes, Inc. Long Booch, CA B/C, J/N, O/OO

Clean Harbors Cooperative Edison. NI R/C, I/N, GL

Class Harbon Economic Services, inc. Breinstee, MA RIC, LIN, GL

-Class Joses 1/11, 0/00

Clean Screen Cooperative, inc. Edmonie, WA INL OVOC

• Clean Venezze, inc. Perts Ambay, NJ 1/C

· CHE Berr, inc. Post Lauderde LC IN

Consti Divers and Politeion CHEST Serverale, GA ME IN

Organization (COSRO) North Haven, CT W. JA

Cook iniet Spill Prevention and Response Nikolski AK

IN. UN. O/OO • Oslowere Bay end Alver Cooperative, inc.

Laves, DE

PAK Haracticus Wants Services Shelwing (

may Environmental Services.

los. Ossining NY 1/G

ni Produce & Services Environ Syracuse, NY

MALENTET GERMA. Ind .

Atlantic Seach. FL N/C

Feen-Ves. inc. Nont Charleson, SC PACIA

• Plotice Spli Response -Corporation Cocoe. FL RC

- Pete Estiros Sensie. WA anni Sansane, CO. - VA I/C, I/N

•Gerner Environmental Services.
Housen. TX **.....** 17 1/C

•GSM Zavronmenni. loc-Valley Forge, PA

Hedren Jes ine. ovile. IL Rom R/C

Industrial Cleanup, inc. & Amounted Gulf Coas: ... Responses

R/C, I'N

· industrii Marine Sentes, Inc. Nonfolk, YA PLIN

lolensi Water Response Motwerk. ins. Hennegon. WV

NE

Jacksonnile Polistica Commi electric. Fl. VC IN

LARCO Environmental Services Lake Charles, LA R/C I/N Mexice Pollution Control

Detros. MI RIC. I'N. GL

Matter Spill Responsible Westernam, DC R/C, I/N, O/OO ai Georgiae. · Mile Larious

Cabrancas, NY 1/C National Response Compounice.

Calvenan, NY NG I/N, Q/OO

• Othl Remediation Services Corp. Findley, OH E/G Riedel Environmental Services

New Orleans, LA .. NC IN

R/C Rivers/Cinsis VN: Inland/Nearshore O/OO: Offshore/Open Ocean GL: Great Lakes . : Final Classification

VII. J. S. EPA CONTRACTORS

1. U. S. EPA Contractors

a) Dioxin Analytical Contract
Meta Trace Inc.
13715 Rider Trail North
Earth City, MO 63045

(314) 298-8566

b) Dioxin Bag Contract
Bulk Lift International. Inc
231 V. Main. Suite 305
Carpenterville. IL 60110

(312) 428-6059

c) Dioxin Building Contract (8A Contractor)
Crown Construction Company
1276 St. Cyr. Suite 124
St. Louis. MO 63137 (314) 867-8027

d) Dioxin Excavation Contract
Riedel Environmental Servicen, Inc.
18207 Edison
Chesterfield. MO 63005 (3)

(314) 532-7660

P.O. Box 5007 Portiana, Oregon 97208

OF.

(800) 334-0004

e) Emergency Response Cleanup Services (FRCS)
Riedel Environmental Services, Inc.
18207 EdisonChesterfield. MO 63005 (314) 532-7660

- f) Field Investigation Team (FIT)
Ecology & Environment, Inc.
6405 Metcalf #3, Suite 404
Overland Park, KS 66202
John Capile (FITL)

(913) 432-3961 (Bus) (816) 322-4575 (Res)

g) REM II

Camp Dresser and Mcgee (Primn) 8215 Melrose Drive. Suite 100 Lenexa. KS 66214 Mark Svatek

(913) 492-8181

h) REM IV

CHIM HILL (Prime)
310 V. Visconsin Ave., Suite 700-E
Hilwankee. VII 53203

John Fleissner

(414) 272-2426

Black & Veatch P. O. Box 8405 Ransas City, MO 64114 Dick Kaufman

(816) 339-2000

VII. U. S. EPA CONTRACTORS

1. U. S. EPA. Contractors (continued)

1) Technical Assistance Tesm (TAT 7) Ecology & Environment. Inc. 6405 Metealf #3. Suite 404 Overland Park. KS 66202 Joe Chandler (TATL) (913) 432-9961 (Bus) (913) 829-1384 (Res) (816) 395-0757 (Pager) St. Louis Office: 1900 Craigshire St. Louis. Mo. 63146 (314) 576-0018 Bob Skirvan (ATATL) (314) 227-0735 (Res) j) TES IV Jacobs Engineering Group Inc. (Prima) 10901 West 84 Terrace. Suite 210 Lenexa. KS 66214 Stave Hauser or Gary Parker (913) 492-9218 Tetra Tech 400 State Ave.. Suite 306 Kansas City, KS. 66101 Russ Krohn (913) 621-6042 DPRA (913) 321-0869 or (913) 321-0872 2. ERCS Contractors, Other Regions Zone 1 (EPA Regions 1-3) O. H. Haterials 16406 U.S. Route 224 East P. O. Box 551 Findlay, OH 45840 (419) 423-3526 Zone 2 (EPA Region 4) O. H. Materials 16406 U. S. Route 224 East P. O. Box 551 Findlay, OH 45840 (419) 423-3526 Zone 3 (EPA Region 5) PEI Assoc. Inc. 11499 Chester Rd. Cincinnati, OH 45246 (800) 372-3727 (24-hour Emergency) (513) 782-4700 (Bus)

(Remarks Balling

1. In-Region Cluan-up Contractors

• • • • • • • • • • • • • • • • • • • •	
Americo	
Rt. 1. Box 159	(816) 732-5591
Kingsville. MO 64061	(816) 732-5563 (24 hrs)
•	•
Amino Brotners Co Inc.	
8110 Kaw Orive	
P.O. Box 11277	
Kansas City, Kansas 6611	.1 (913) 287-8557
(General Response Service	
,	
Aptus	
P. O. Box 907	(316) 251-6380
Coffeyville. KS 67337	•
•	
Ashland Chemical	
7710 Polk St.	·
St. Louis. MO 63111	(314) 638-7400
and	•
5420 Speaker Rd.	
Kansas City, KS 66106	(913) 371-0740
•	• ,
Vastes accepted	: acids. hromic acids.
pickling acids	. caustic::. cyanides.
paints and inks	. solvents (halogenated
	enated). vaste oil.
commercial che	sical products. non-
metallic and	metallic inorganics.
mersilic orwanic	s. halogenated organics.
and contaminated	
Central States Environm	ental Services Inc.

Central States 319 E. Seventh	Environmental.Services Street	Inc.	
Centralia. IL	6 2801		
Dave Pritch:	era .	(618)	532-4784

Double Check
4614 Prospect
Kansas City, Ho. (816) 921-5032

Environmental Int'l., Inc.
912 Scott
Kansas City, Kansas 66104 (913) 321-3155

Interstate Environmental Services
6300 Stadium Drive
Kansas City, MO 64129 (816) 921-5511

Delta Environmental
303 S. Main
Sikeston. MO 63801
Darrel Pullen (314) 471-7041

1. In-Region Clean-up Contractors (continued)

```
Environmental Protection Inspection & Consultory, Inc. (EPIC)
 450 Dains St.
P. O. Box 541
Liberty, HO 64068
                                        (816) 781-7755
 4315 Merriam Drive
                                         (913) 236-5040
 Overland Park, KS 66203
                                         (913) 791-2702 (24 hours)
                                         (816) 223-1065 (mobile)
      Pagers:
                                         (816) 333-2610
                                         (816) 881-9759
               Mike Franano
                                         (913) 831-9778
                                         (816) 247-6489
Evans Engineering Co.
                                      (712) 328-1511
 807 S. 21st Street
 Council Bluffs, IA 51501
 Industrial Services
 6201 North 70th
 Lincoln. NE 68517
                                         (402) 467-3581
                                         (402) 435-4528 (24 hrs)
    Phil Knaun
                                         (answer machine, ask )
    Butch
                                             Phil Knaun
    Dennis
 O. H. Haterials
 42 North Central Drive
 0'Fallon, MO 63366
                                         (314) 272-3303
                                         (800) 537-9540 (24 hrs)
                                         FAX: (314) 272-3447
 Odesco Industrial Services
 100 Vashington Ave.
 S. Roxanna. IL 62087-0862
                                         (314) 878-8191
 Heritage Remodiation/Engineering
 183 McDonnel Blvd
 St. Louis. MO 63042
                                         (314) 521-3600
 React, Division of D. W. Ryckman & Assoc. Inc.
 P. O. Box 27310
 St. Louis, MO. 63141
                                          (314) 569-0991 (24 hr)
                                      or:(800) 325-1398
 Ricky Shaw & Sons Transportation Co.
 500 Bennington
 Kansas City, HO 64125
                                         (816) 241-5444
```

1. In-Region Clean-up Contractors (continued)

Riedel Environmental Services. Inc. 18207 Edison Ave. (314) 532-7660 Chesteritald. MO 63005 . (800) 334-3004 Safety - Kleen Corporation RE 2. Box 128A Grand Island. NE 68801 (308) 384-1616 Goering, NE 69341 (308) 436-2600 Omens. NE 68144-(402) 333-5321 Mason City, Li (515) 423-3030 Des Hoines. Il (515) 986-4100 Riedel Solvent Recovery Corp. (Industrial Vaste Management, Inc.) 716 Hulberry P. O. Box 4035 Kansas City, MO 64101 (816) 474-1391 (24 hrs) Total Environmental Services (Deffenbaugh Disposal Service) Dwight Brinkley (913) 631-2407 (913) 631-3181 (24 hms) Tipton Environmental Technology U. S. 50-E Highway P. O. Box 849 Tipton. MO 65081 (816) 433-5585 Americo. Kansas City 901 Voodsvetter Rd. - Kansas City, MO 64101 (816) 471-6642 Van Vaters and Rogers P. O. Box 7900 3900 D Street Omaha. NE 68107 (402) 733-3266 or 7007

2. Clean-up/Disposal Contractors Outside Region

CECOS Environmental Services

4879 Spring Grove Ave.

Cineinnati. OH 45232 (513) 681-5738 (24 hrs)

Villiamspurg, Ohio Disposal Facility:

(800) 543-0274
(513) 489-8742 (24 hrs)

Livingston. Louisians Disposal Facility:

(800) 452-7622
(504) 686-0122

2. Clean-up/Disposal Contractors Outside Region (continued)

Chemical Waste Hanagement. Inc. ENRAC Division(clean-up) 3003 Butterfield Road Oak Brook. IL 60521

Roger Star (Disposal) (312) 218-1544 Hark Medick (312) 218-1554 Chicago Ineinerator: (800) 722-9999 Emelle, Alabama: (205) 652-9721

Clean Sites Inc. (non-profit cleanup)
1199 North Fairfax St.
Alexandria. VA 27314 (703) 683-8522

Emergency Response Sec.
Calgon Activated
Carbon Division
4343 Commerce Court. Suite 400
Lisle. IL 60532

(312) 505-1919

Emergency Technical Services Corporation of Illinois
P. O. Box 941145
Schaumberg, IL 60194
Irv Kraut. Vice President (312) 984-1230

Specialize in disposal of highly reactive and explosive chemicals in high-hazard or emergency situations. Services include assessment, packaging, transportation and disposal.

Environmental Systems Company (EMSCO)
American Rd.
EL Dorado. AR 71730 (501) 863-7173

Enviro Save Services of Idaho. Inc. Missile Base Rd. Grandview, ID:83624 (208) 384-1500

Vaste accepted: Acids/corrosives, metals cyanides, PCBs and solvents.

Enviro Save Services 876 Otter Craek.Road Oregon, OH 43616 James E. Hamilton

(419) 255-5100

2. Clean-up/Disposal Contractors Outside Region (continued)

Response time to Iova is a few hours for emergencies. a. day or no for non-emergencies. Oil and hazardous materials incidents. Adequate nanpower and equipment. Clean-up of hazardous vaste sites.

Hastech(Vestinghouse)

5280 Panoia Industrial Blvd.

Decarur, GA 30035

(404) 981-9332

(404) 981-9339 (24 hr)

Hulcher Emergency Services (Railrond Derailments)

611 Kimberly Drive

P. O. Box 271

Denton. TI 76202-0271

(800) 637-3471

Odesco Industrial Services

P.O. Box 862

100 Vashington

S. Roxanna. IL 620887

(314) 878-3191

Peoria Disposal Co.

4700 N. Sterling Peoria. IL 61615

(309) 688-0760

Petrochem

- P.O. Box 337

Lemont. IL 60439

(312) 739-1150

Vastes accepted: Commercial chemicals.
non-metallic and metallic inorganics.
non-halogenated organics. processing
vater. contaminated vater. oil- and
metal-bearing aqueous vaster. vastevater
filter taxes. and arc dust.

Rollins Environmental Services (Cleanup/Disposal)

P. O. Box 45212

Dept. 123

Baton Rouge. LA 70895

(504) 292-4922

Scenic Highway Facility,

(504) 778-1234

Baton Rouge Security
Deer Park. Tx. incinerator

(713) 479-6001

Chemical Waste Management (formerl' TVI)

150 W. 137th St.

Riverdale. IL 60627

(312) 841-8360

2. Clean-up/Disposal Contractors Outside Region (continued)

Vastes accepted: Paints and inks, solvents (non-halogenated and halogenated), commercial chemical products, metallic organics (on a case-by case basis), halogenated and non-halogenated organics, infectious and pathological wastes, scintillation vials and lab packs.

Trade Vaste Incineration
7 Mobile Ave
Sauget, IL 62201
Terry Johnson (contact)

(618) 271-2804

U. S. Ecology 9200 Shelbyville Road. Suite 300 Louisville. KI 40222 Beatty, NV Site

(502) 426-7160

U. S. Pollution Control 2000 Classen Center Suite 400 S. Oklahoma City, OK 73106 Grassy Ht., UT Facility

Vaynoka. OK Facility

(405) 528-8371 (405) 528-8371 (405) 697-3237

Veston Services Inc. Veston Vay. Vestchester, PA 19380

(215) 692-3030

3. Equipment Available for Loan by Industry & Commercial Sources:

COMPANY & LOCATION

SERVICES & EQUIPMENT

ADM Red Ving, MN (612) 388-7111 Dave Turner Boom. sorbents skimmer, hose and boat

Amoco Oil Co. Terminals:
75 31st Street
Bettendorf. IA 52722
(319) 355-2686 Bus. Hrs.
(319) 386-0853 After Hrs.
Lynn Talcott

Absorbent material and rope-onreplacement basis. Motor boat available.

829 E. South Omana Bridge Road Council Bluffs. IA 51503 (near NCR terminal) (712) 366-9462 (24 hr) Norman Neuerburg Equipment & personnel for potroleum recovery. Portable filter tump available. Absorbent materials on a replacement basis.

1501 NV 86th

Des Hoines. IA 50311
(515) 225-4017 (bus. hrs)
(515) 275-4021 (ans. serv.)

G. L. Landry

011 clean-up supriies, 3M absorbent, containment barriers - on a replacement basis.

- Ashland Petroleum St. Paul. MN (612) 459-9771 Doug Fisher Broom, sorbents, skimmer, vacuum....

Barron Enterprises Newport. MN (612) 739-4675 Mike Mahoney

Boom and sorpents.

J. D. Brennan Co., Inc. Lá.Crosse. VI (608) 784-7143 (see La Crosse Oil Spill Corp)

Broski Brothers Co., Inc. 3915 Fuller Kansas City, Missouri 64129 (816) 861-8000

Monufacturer. Supplier. and Installation of Chain-Link. Fence Fabric and Gates

...

CF Industries Rosemount, MN (612) 437-6366 (612) 437-4545

3. Equipment Available for Loan by Industry & Commercial Sources (continued)

COMPANY & LOCATION

SERVICES & EQUIPMENT

CF Varenouse
Rosemount. MN
(612) 437-6191
Tillman Vestnersnee

Calgon Mobile Treatment Serv. Carbon treatment systems.
Calgon Center
P. O. Box 1346
Pittsburg, PA 15230
(412) 777-8000
(312) 505-1919
Salil K. Sen

Cape Girardesu Coop. Cape Girardesu. HO (314) 335-6685 Robert Erlbacker Boom. skimmer. hose. barge and boat with motor.

Crest Associates 2905 Pillsbury Avenue Minneapolis. MN 55408 (612) 872-8668 Equipment only: sorbents. booms. sweeps. etc.

Dairyland Power Coop.
Geona. TI
(608) 788-4000
(608) 788-4006
(see La Crosse 011 Spill Coop)

Day-Star 1544 Howeil North Kansas City, MO 64116 (816) 221-1401

Erickson Petroleum Newport, HN (612) 459-4307 Boom and boat.

Gard Oil Products. Inc. 2727 Ros Kansas City, KS 66103 (913) 235-5000 Sorbents. booms.

Hawkins Chemical Minneapolis. MN (612) 331-6910 Tom Dellich Chemicals

3. Equipment Available for Loan by Industry & Commercial Sources (continues)

COMPANY & LOCATION

SERVICES & BOUIPKEYT

Hazco Services. Inc. 2006 Springboro West Road P. O. Box 2635 Dayton. OH 45439 (513) 293-2700 (800) 332-0435

Equipment and trailers

Holland Bros. Cons. Co., Inc. Grading, Embanement, Excession-**Eighway 9 Vest** Decoran. Iowa 52101 (319) 382-2901 (319) 382-2412

Clearing, Grubbing, and Demoiition

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Hydrite Chemical La Crosse, VI (612) 784-0024 (see La Crosse Oil Spill Coop)

ITAPCO-Missouri Terminal. Inc.

Boom and sorbents.

Cape Girarmesu. MO (314) 335-6688 Allen Hoore

Illinois Chemical Corp. - P. O. Box 2116 Highland Park. IL 60035 (312) 433-1145 (all counties along Mississippi River) Villiam B. Katz Joe Jacobson (all love except counties along Mississippi River; St. Louis Office 5217 Caribee Or. St. Louis. HO 63128 Robert Moore (314) 487-3139

O'l spill equipment specialist Maintains large stocks of: sorbenzs, including imbiber beads, and can arrange immediate : shipment of contribment booms and skimmers. Cosmitant to-Barton Solvents.

Iowa Safety Equipment Co. 1206 Grand Avenue Des Moines. IA 50309 (515) 276-3765 (bus. hrs.) (515) 987-4331 (after hrs.) Bill Lefler. Jr.

protective clothing, gas masks. SCRL, respirators, steel toes rubber boots, personal safety equipment.

3. Equipment Available for Loan by Industry & Commercial Sources (continued)

COMPANY & LOCATION

SERVICES & EQUIPMENT

J.H. Berre Const. Co.. Inc. 5091 New Banneartner Road St. Louis. MO 63129 (314) 487-5617

General Response Service and also Marine Transporter.

Kehe Const. Co. 2700 5th Ave. N.V. Box 827 Waverly, Iowa 50677 (319) 352-3212

Gerneral construction . service Iowa Only

Kelso Chemical Co. 1801 N. 1st Street Lincoln. NE 68508 (402) 475-7036

Equipment only, sorbents. booms, sveeps, etc.

Koch Fuels St. Paul. MN (612) 227-7106 Mike Savage Boom. sorbents. boat with motor, spill collection truck.

Koch Refinery (Barge Slip) Rosemount, MN (612) 437-0700 Tom Seiger

Boom, sorbents, and boat.

Koch Refinery Spill Control Coop. (Equipment stored at Koch Fuels #2) (612) 227-7106 (office) (612) 738-8699 (home) Hike Savage

Boom, sorbents, skimmer. pumps, hoses, and boat.

La Crosse Oil Spill Coop. (Equipment stored at NSP Plant-French Island) **~ (608) 782-3670** Kent Pehler

Boom, sorbents, skimmer, hose, and boat.

Liomark. Inc. and Subsidiaries. Land of subsurface excavations. 1620 Voodson Road St. Louis, MO 63114 (314) 991-2180

all types of trucking and hanling

. Equipment Available for Loan by Industry & Commercial Cources (continued)

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OC

COMPANY & LOCATION

SERVICES & EQUIPMENT

Midwest Industrial Fuels. Inc. Boom, sorbents, skimmer. La Crosse. II (608) 782-3308 Joe Gaspers

hose and boat.

Minnesota, Mining and Hammiscruring (3M) Environmental Specialities Ocemational Health and Safety Products Division 220-7V-02 St. Paul. MM 55144 (612) 733-6100 Joyce Engleberr(612) 735-1311

Equipment only, sorbents. · booms, .sveeps, etc.

Chicago Branch Sales Center 6850 South Harlem Avenue

(Bedford Park) Argo, IL 60501

(312) 496-6666 (J. E. Matt. Safety Director)

(312) 598-6692 (M. Doody, Branen Sales, Warenorse (Foam))

(312) 458-9194 (C Hupke. Branch sales, Varenouse)

(312) 238-2935 (R. Rafferty, Branch Office Administration)

(815) 597-3761 (L. Nelson, Superintendent, Rockford Branch)

600 E. Meigs Street Valley, NE 68064 (402) 359-2131

Mobil

Boom and sorbents.

La .Crosse. VI (608) 782-1850 Ron Sangs-(608) 784-5460 Bob Johnson

Mobil 011 St. Paul. MN (612) 227-0731 Herry Thompson Boom and sorbents.

Northern States Pover France Island La_Crosse, VI (608) 782-6526 Keith Anderson (see La Crosse Oil Spill Coop)

3. Equipment Available for Loan By Industry & Commercial Sources (continued)

COMPANY & LOCATION

SERVICES & EQUIPMENT

Packer River Terminal Minneapolis. MN (612) 588-8141 Tim Pribil

Boom and sorbents.

Petroleum Equipment and Service. Inc. P.O. Box 160 220 35th Street Marion. IA 52302 (319) 377-6357 (24 hrs.) (319) 377-6606 (aft. hrs.) Bernie Cooper (319) 377-1478 (aft. hrs.) Vally DePauw (319) 377-1260 Don Helmick

Have absorbent pads: test underground storage tanks

(Petrotite system). Specialry is installation, service and cleaning of bulk storage tanks. but can handle some small spills. Vork mostly within a 60 mile radius of office.

East Dubuque, IA (608) 748-4426 (bus. hrs.)

Eldridge, Il. (319) 285-8141 (bus. hrs.)

Resource Indurties. Inc. 2018 E. Praire Circle. Bldg. B Olarne. KS 66062 (913) 541-7150

Containment and Absorbent booms and Pads for spills. Emplsifiers and Bioremediation Products

Response Industries. Inc. 2018 East Prairie Circle Olarne. KS 66062 (913) 541-7150

Roto Rooter 5660 Inland Drive Kansas City, Kansas 66106 (913) 287-5005

General Plumbing Response Services. Possibility for oil spills in R.C. area

Russell & Sons Const. Co., Inc. Full line of heavy construction. Box 535 **Bureka.** KS 67045 (316) 583-5512

equipment

Union Oil St. Paul. MN (612) 227-9438 Rangy Veil

Boom. sorbents. pumps, bost and other equiptment available.

3. Equipment Available for Loan By Industry & Commercial Sources (continued)

COMPANY & LOCATION

SERVICES & ROUTPLEAT

Upper River Services South St. Paul. MN (612) 292-9293 Greg Genz

Boom, sorbents, and boat.

Vel-Tex Chemical St. Paul. MN (612) 774-9604 Boom, sorbents, jump and hose.

Vestvay Trading St. Paul. MN (612) 774-6600 Gordon Heyer

Boom, sorbents, and pump.

Villiams Pipeline Company 2503 SE 43rd Street Des Hoines. IA 50317 (612) 633-1555 (bus. hrs) Gary Lee

Alikorpents. pumps. hose. etc.

912 1st Avenue Coralville. IA 52241 (918) 588-3200 (24 hr - Tulsa) John Martin

P. 0. Box 245 Clear Lake. IA 50428 (515) 357-2124 Wally Anderson

7th & Yates Omnha. NE 68110 (402) 342-5476 6 mm - 10 pm Bob Schmidt

Loan of oil clear up equipment.

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4. PCE Disposai Companies

ENSCO

333 Executive Court

Little Rock. AR 72205 (Facility: Physical Separation)

(501) 223-4100

National Plectric/Aprus

P. O. Box 1328

Coffeyville, KS 67337 (Facility: Physical Separation)

(316) 251-6380

National Oil Processing/Aptus

P. O. Box 1328

Coffeyville, KS 67337 (Facility: Chemical)

(316) 251-6380

PPM. Incorporated

1875 Porge Street

Tucker, Gi 30084 (Facility: Chemical) (404) 934-0902

and

10 Central Ave.

Kansas City, KS 66118

(913) 621-4206

Pyrochem/Aprus

P. O. Box 1328

Coffeyville. KS 67337 (Facility: Incinerator)

(316) 251-6380

Quadrex HPS. Incorporated

1940 NV 67th Place

Gainesville, FL 32606 (Facility: Physical Separation)

(904) 373-6066

Sun Environmental. Incorporated

1700 Gateway Blvd. S.E.

Canton, OH 44707 (Facility: Chemical) (216) 452-0837

Transformer Consultants

P. O. Box 4724

Akron. OE 44310 (Facility: Chemical) (800) 321-9580

Trinity Chemical Company, Inc.

6405 Metcalf. Cloverlear 3. Suite 313

Shavnee Mission. RS 66202 (Facility: Chemical)

(913) 831-2290

USEPA Regional PCB Disposal Contacts

Leo Alderman. PCB Coordinator

Gary Bertram

Toxics and Pesticides Branch

Environmental Protection Agency, Region VII

726 Minnesota Avenue

Kansas City, KS 66101

roll DESTRUCTION

(913) 236-2835

APPENDIX C.2

EQUIPMENT

Appendix C.2 contains a listing of response equipment and resources available through contractors and responders.

Contractors listed in the Facility Response Plans received by Region VII are being contacted and asked to send an inventory of their response equipment. Information obtained will be incorporated into this Appendix as it is received.

EPA RESPONSE CAPABILITIES

REGION VII ON-SCENE COORDINATORS

NAMES	TELEPHONE NUMBERS
Carl Bailey Jamie Bernard-Drakey Roy Crossland Tim Curry Don Hamera Dan Harris George Hess Carol Kather Bill Keffer Jim Kudlinski Jim MacDonald Ron McCutcheon Wood Ramsey Mark Thomas Dave Williams	(913) 551-5015 551-5060 551-5025 551-5017 551-5028 551-5024 551-5021 551-5037 551-509 551-5152 551-5103 551-5012 551-5011 551-5010 551-5055 551-5030
FAX NUMBER	
(913) 551-5035	

EPA/EP&R VEHICLES

- 6 Vans &/or Minivans
- 4 4 x 4 Trucks &/or Suburbans
- 2 4 x 4 Suburbans
- 1 Drill Rig
- 1 Cube Van (Emergency Response Vehicle)

TAT SUPPORT EQUIPMENT

- 5 Binoculars
- 1 Cameo Data Base
- 5 Portable Cellular Phones
- 3 Non-Portable Cellular Phones
- 6 Cameras (35 mm)
- 1 Cable Locator
- 8 Flashlights
- 1 Geoprobe
- 1 Grounding and Bonding Kit
- 2 Heavy duty winches
- 1 OHMTAD Chemical Data Base
- 2 Portable Pumps
- 1 Vacuum (Industrial)
- 1 Video Camera (Panosonic)
- 2 Weather Station
- 1 Boat

SAMPLING EQUIPMENT

20+ - Coolers

8 oz. jars

Pint bottles

64 oz. jugs

Sorbent pads

Booms

Vacucontainers

Thieving rods

TAT TRANSPORTATION

Kansas City Office:

1983 Chevy 4 x 4 Pick-up, EPA 1178

1987 Chevy Suburban, EPA 1056

1987 Plymouth voyager - Local Only, EPA 1052

1988 Chevy Astro Van, EPA 707

1989 3/4 Ton Dodge Pick-up - Geoprobe, EPA 709

1989 Dodge Caravan, EPA 1068

1991 Dodge Caravan, EPA 1270

1991 Dodge Caravan, EPA 1271

1991 Dodge Caravan, EPA 1272

1992 Ambulance-type Response Vehicle, EPA 1378

1993 Mobile Command Post, EPA 1418

St. Louis Office:

1980 Chevy Suburban

1987 Chevy Celebrity Sedan

1989 Chevy Astro Van

FIELD MONITORING AND TESTING EQUIPMENT

- 2 Colormetric GIV Test Kits
- 4 Combination Combustible Gas/Oz Meter (MSA)
- 3 Conductivity Meter pH Temperature
- 2 Draeger Colormetric Tube Sets
- 10 Gilian Sampling Pumps
- 4 Hazcat Kits
- 1 heat Stress Monitor
- 5 HNu Photoionization Detectors
- 5 OVA GC Organic Vapor Analyzer
- 3 Radiation Monitor (Rad-mini)
- 4 Hand-held 2-way Radios
- 1 Radiation Meter Ludlum
- 1 Mercury Vapor Analyzer Jerome 411
- 1 Spectrophotometer DR 3000
- 1 Test Kit for Immunoassay screening, chlor-n-oil (PCB screening), chlor-n-soil (PCB screening), and setaflash

PERSONAL PROTECTIVE EQUIPMENT

- 5 Canister Respirators
- 3 Cooling Vests
- 1 Eyewash Station
- 4 First Aid Kits
 - 6 Escape Packs (ELSA)
 - 8 Powered Air Purifying Respirators
 - 10 Self Contained Breathing Apparatus (SCBA), 30 Minute
 - 16 SCBA Cylinders (extra), 30 Minute

LEVEL B-C PROTECTIVE CLOTHING IN REGULAR INVENTORY

4 - Responder (encapsulating B)

Saranex

Sygei

Tyvek

Latex Booties
Gloves - Viton
Butyl
Vinyl
Latex
Nitrile
Surgical
Duct Tape

Each TAT assigned to the field is issued: APR, hard hat, safety goggles, chemical boots, leather boots, nomex hood, nomex hood, nomex jump suit and cotton jump suits.

Enclosure (4) to Annex 00 to Region VII Regional Contingency Plan SECOND COAST GUARD DISTRICT RESPONSE RESOURCES MARINE SAFETY OFFICE CONTACT LIST

CDR Scott Cooper LCDR Alan Peek LCDR Mike Shafersman LT Terrence Carter	COM (314) 539-3091 FAX (314) 539-2659 COM (319) 322-6297 COM (612) 290-3991 FAX (612) 290-3992
CDR Michael Slack CDR Patrick Keane LT James Hillerns	COM (901) 544-3941 FAX (901) 544-3886 COM (601) 332-0964/5
CDR Robert Segovis LCDR Craig Bone LCDR David Conklin	COM (502) 442-1621 COM (502) 443-7061 COM (615) 736-5421 FAX (615) 736-7315
CDR William Morani LCDR Adan D. Guerrero LT Ronald Hassler	COM (502) 582-5194 FAX (502) 582-6825 COM (513) 684-3295 FAX (513) 684-3279
CAPT Joseph T. Kuchin LCDR Stephen Garrity	COM (304) 529-5524 FAX (304) 522-9457
CDR Michael W. Brown LCDR David Eley	COM (412) 644-5808 FAX (412) 644-3479
	LCDR Alan Peek LCDR Mike Shafersman LT Terrence Carter CDR Michael Slack CDR Patrick Keane LT James Hillerns CDR Robert Segovis LCDR Craig Bone LCDR David Conklin CDR William Morani LCDR Adan D. Guerrero LT Ronald Hassler CAPT Joseph T. Kuchin LCDR Stephen Garrity CDR Michael W. Brown

NEA 7 100 0.45

Enclosure (5) to Annex OO to Region VII Regional Contingency Plan

SECOND COAST GUARD DISTRICT RESPONSE RESOURCES PREPOSITIONED EQUIPMENT

National Site. The following oil spill response equipment is stored at the U.S. Army Melvin Price Support Center in Granite City, IL. and is available through the District Response Advisory Team. Technical specifications are available from the DRAT.

Vessel of Opportunity Skimming System (VOSS)

- Manufactured by Hyde Products, Cleveland OH
- Consists of two equipment sets, one for each side of the ship, each pumps 190 gpm powered by a 88 hp diesel hydraulic prime mover.
- Each set is snipped in a 14'x8' container weighing 11,000 lbs loaded.

Portable Inflatable Collapsible Barges (2)

- Manufactured by Lancer Industries, Auckland NZ
- Holds 26,000 gallons when full
- Inflated size: 51' long x 18' wide x 8' deep
- helicopter-transportable (sling load)

Foam Filled Oil Containment Boom (5000 feet)

- Manufactured by American Marine Inc., Coca Beach FL
- Shipped in 10 watertight containers (500' each)
- 50 foot sections, 42" high with 15.5" freeboard

Low-Bad Trailers (4)

- Manufactured by MCT Industries, Albuquerque NM
- One 48' trailer for VOSS, prime movers and barges
- Three 42' trailers for boom

C-130 Aircraft Pallets

- One VOSS and two barges can be transported on one C-130

MSO Prepositioned Response Equipment. In 1991, each Marine Safety Office and Detachment was provided with 18 inch oil spill boom and trailers, to be prepositioned within their zones. A total of 34 trailers were purchased, each with 1000 feet of boom (10 100' sections) and anchors, ropes, tools and other equipment required for effective deployment. The trailers are accessed through the responsible MSO at the number shown. The trailers are currently positioned as follows:

MSO HUNTINGTON WV (304/486-5605)

- ♦ Belleville Locks and Dam, Belleville WV
 - mile 203.9 RDB Ohio River
- · Marmet Locks and Dam. Marmet WV
 - mile 67.7 RDB Kanawha River
- MSO Huntington, 937 Washington St, Huntington WV
 - mile 308 LDB Ohio River

MSO LOUISVILLE KY (502/582-5194)

- + Capt. Anthony Meldahl Locks and Dam, Neville OH - mile 436.2 RDB Ohio River
- * MSD Cincinnati OH, 4335 River Rd. Cincinnati OH - mile 477.5 RDB Ohio River
- Markland Locks and Dam, Markland IN

- mile 531.5 LDB Ohio River

- McAlpine Locks and Dam. Louisville KY
 - mile 606.8 LDB Ohio River
- + Cannelton Locks and Dam. Cannelton IN

- mile 720.7 RDB Ohio River

- + Newburgh Locks and Dam, Evansville IN
 - mile 776.1 RDB Ohio River

MSO MEMPHIS TN (901/544-3941)

- + Newt Graham Locks and Dam, Tulsa OK
 - mile 421.6 LDB Arkansas River
- MSD Greenville, 1801 Industrial Park Rd, Greenville MS - mile 540 LDB Lower Mississippi River
- MSO Memphis. 200 Jefferson Ave. Memphis TN
 mile 725.5 LDB Lower Mississippi River (Memphis Harbor)
- Murray Locks and Dam, Little Rock AR
 - mile 125.4 RDB Arkansas River
- * Norrell Locks and Dam. Tishner AR
 - mile 10.3 LDB White River
- ◆-Trimble Locks and Dam. Fort Smith AR
 - mile 292.8 RDB Arkansas River

MSO PITTSBURGH PA (412/281-3311)

- USCCC Osage Moorings, Sewickley PA
 - mile 10.9 RDB Ohio River
- · Pike Island Locks and Dam, Wheeling WV
 - mile 84.2 LDB Ohio River
- ♦ Lock and Dam 3, Harmarville PA
 - mile 14.5 LDB Allegheny River
- . Lock and Dam 4, Monessen PA
- mile 41.5 RDB Monongahela River

MSO ST LOUIS MO (314/539-3823)

- + Lock and Dam 4, Alma WI
 - mile 752.8 LDB Upper Mississippi River
- + Lock and Dam 8, Genoa WI
 - mile 679.2 LDB Upper Mississippi River
- * Rock Island Arsenal, Rock Island IL (2 trailers)
 - mile 483.0 LDB Upper Mississippi River
- Granite City Army Depot, Granite City IL (3 trailers)
 - mile 185.0 LDB Upper Mississippi River
- · Chester Public Works, Chaster IL
 - mile 109.8 LDB Upper Mississippi River
- USEPA Region VII Laboratory, Kansas City KS
 - mile 368.0 RDB Missouri River

MSO PADUCAH KY (502/442-1621)

- MSO Paducan. 225 Tully St. Paducan KY (2 trailers) mile 934.0 LDB Ohio River
- * Smithland Locks and Dam. Smithland KY
 - mile 918.5 RDB Ohio River
- Old Hickory Locks and Dam, Rayon City TN mile 216.2 LDB Cumberland River
- + Pickwick Landing Locks and Dam, Counce TN
 - mile 206.5 LDB Tennessee River
- * TVA Gunthersville Res. Maintenance Base, Gunthersville AL
 - mile 358.0 RDB Tennessee River

7 100 0.47

Enclosure (6) to Annex 00 to Region VII Regional Contingency Plan

SECOND COAST GUARD DISTRICT RESPONSE RESOURCES ON-SITE COMMUNICATIONS

The Second Coast Guard District maintains the following transportable communications capabilities which can be deployed to support OSCs on request. The system was developed to allow an OSC to communicate with his or her home office from any point in the Second District. All equipment travels with the operator as excess baggage and can be transported to the site in a rental vehicle and powered with a car battery or portable generator.

CELLULAR COMPONENT, consisting of 2 Motorols 250 callular telephones with "Cellular Connection" interfaces, and two Fujitsu "dexExpress" portable facsimile machines. Both operate from 100VAC or 12VDC from a vehicle cigar lighter.

SATELLITE COMPONENT, consisting of a Mobile Telesystems Inc. TCS-9200 INMARSAT-A terminal. This terminal connects with the national telephone system through COMSAT in Southbury CT and provides high-quality voice and data (facsimile) through the INMARSAT satellite constellation. It consists of a single 110 lb case.

HF-SSE COMPONENT, consisting of two portable high fraquency radios which provide access to FEMA, DOT and EFA radio networks on 2-30 MHz at 125 watts. The component has not yet been equipped with ALE and raquires a trained operator. One set has a battery pack and both are powered by either 110VAC or 12VDC.

VHF-FM COMPONENT, consisting of six 6 watt Motorola Saber I handheld radios and two portable 40 watt base stations, operating on Coast Guard frequencies in the 150-174 MHz band. The base stations are powered by either 110VAC or 12VDC.

COMPUTER COMPONENT, consisting of either a Macintosh SE/30 computer or a Zenith 640KB laptop computer. Both have compatible dot-matrix printers and power supplies for 110VAC or 12VDC and are loaded with a word processor and spreadsheet. The SE/30 has Microsoft Word and Excel, which is compatible with current NFFC and NSF capabilities.

- POWER SUPPLY/SUPPORT COMPONENT, consisting of a variety of cords, power supplies, instruments, tools and adapters to allow effective operation and maintenance of the other components.

Enclosure (7) to Annex 00 to Region VII Regional Contingency Plan

SECOND COAST GUARD DISTRICT RESPONSE RESOURCES OTHER RESOURCES

Cutters. The Second Coast Guard District has eighteen buoy tenders assigned which can support response operations on request. Their locations depend on their operational and maintenance schedules. They can be accessed through the MSO for that area.

Small Boats. The Second District has a variety of small boats assigned, generally between 17'-21' in length with twin outboard motors. The actual number available varies with operational and maintenance schedules. A number of 17 foot flood ralief boats are also available. These boats have single outboard motors and are minimally equipped. All boats are accessed through the cognizant MSO.

Safety and Occupational Health Specialist. The Second District has assigned an Industrial Hygienist who can support development and enforcement of site safety plans on request.

Contracting Support. The DRAT has assigned a contracting officer who can assist an OSC with emergency contracting needs.

Basic Ordering Agreements. The Second District has entered into Basic Ordering Agreements (BOAs) with a number of cleanup contractors to provide standard services at standard rates in support of OSC operations. All can be retained directly or through the Second District Marine Safety Division.

Riedel Environmental Services, Inc. DTCG84-91-A-20003 18207 Edison Avenue Chasterfield. MO 63005

314/532-7660

Petroclean, Inc. P.O. Box 92 Carnegie, PA 15106 DTCG84-91-A-20001 412/279-9556

Environmental Specialists, Inc. 3001 East 83rd Street Kansas City, MO 64132

DTCG84-91-A-20004 815/523-5081

OHM Remediation Services Corp. 16406 U.S. Route 224 East Findlay, OH 45840

DTCG84-91-A-20002 419/423-3525

Belpar Environmental, Inc. 510 "C" Street P.O. Box 8278 South Charleston, WV 25303 DTCG84-90-R-30001

FIRE FIGHTING EQUIPMENT

Fire fighting equipment is available through the local fire departments referenced in Appendix C.1; however, additional equipment is available through the National Fire Equipment System (NFES). The Fire Supplies and Equipment Catalog, April 1993, is available through EPA Region VII, Emergency Planning and Response (EP&R), 25 Funston Rd., Kansas City, Kansas, 66115, (913) 551-5000. The catalog lists fire supplies and equipment stocked by the NFES caches. Emergency orders for incidents should be directed through:

ORDERS MONDAY--FRIDAY, 7:45-4:15 CENTRAL TIME General Services Administration (GSA) General Products Commodity Center Fort Worth, Texas (817) 334-2605

ORDERS MONDAY--FRIDAY BETWEEN 2:15 AND 3:15 PACIFIC TIME GSA Region 9 Wester Distribution Center, Stockton, California (209) 946-6382/6383/6384 FAX (209) 946-6076

ALL OTHER AFTER HOURS, WEEKEND AND HOLIDAY CALLS

(209) 466-9512 (answering service)

APPENDIX C.3

USCG/EPA RESPONSE BOUNDARIES

Figure 1a

National Response System Concepts: Response

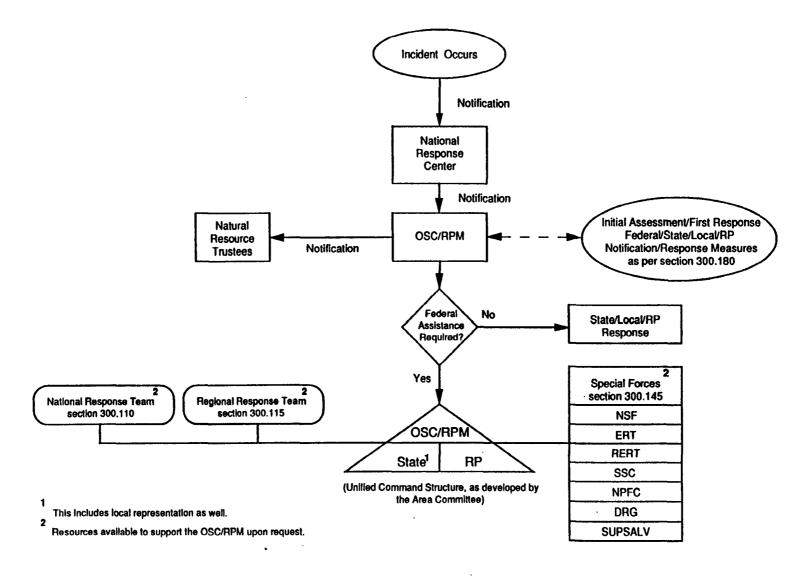
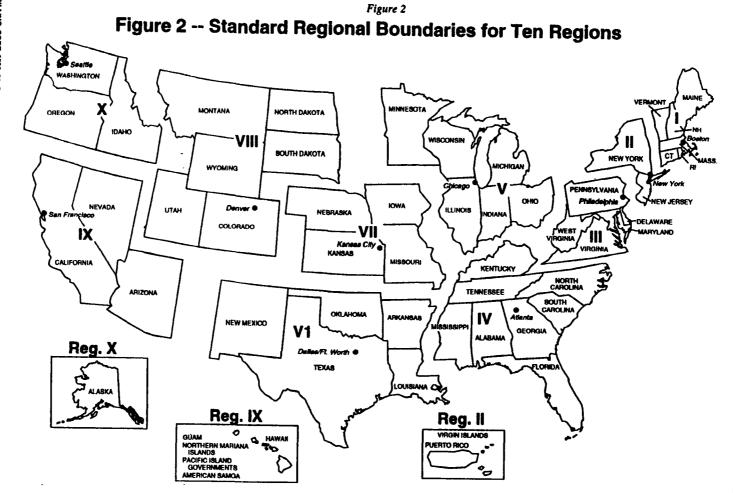
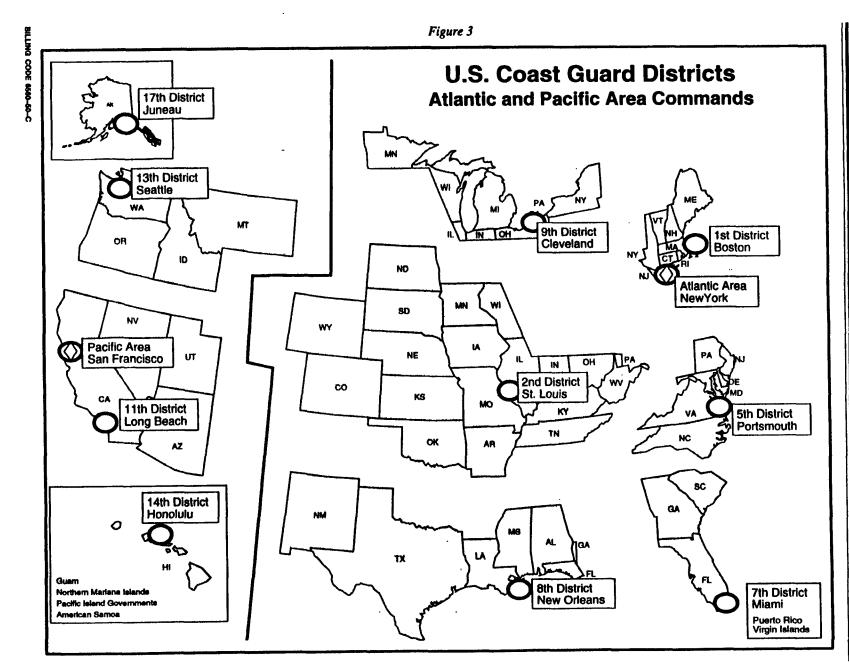
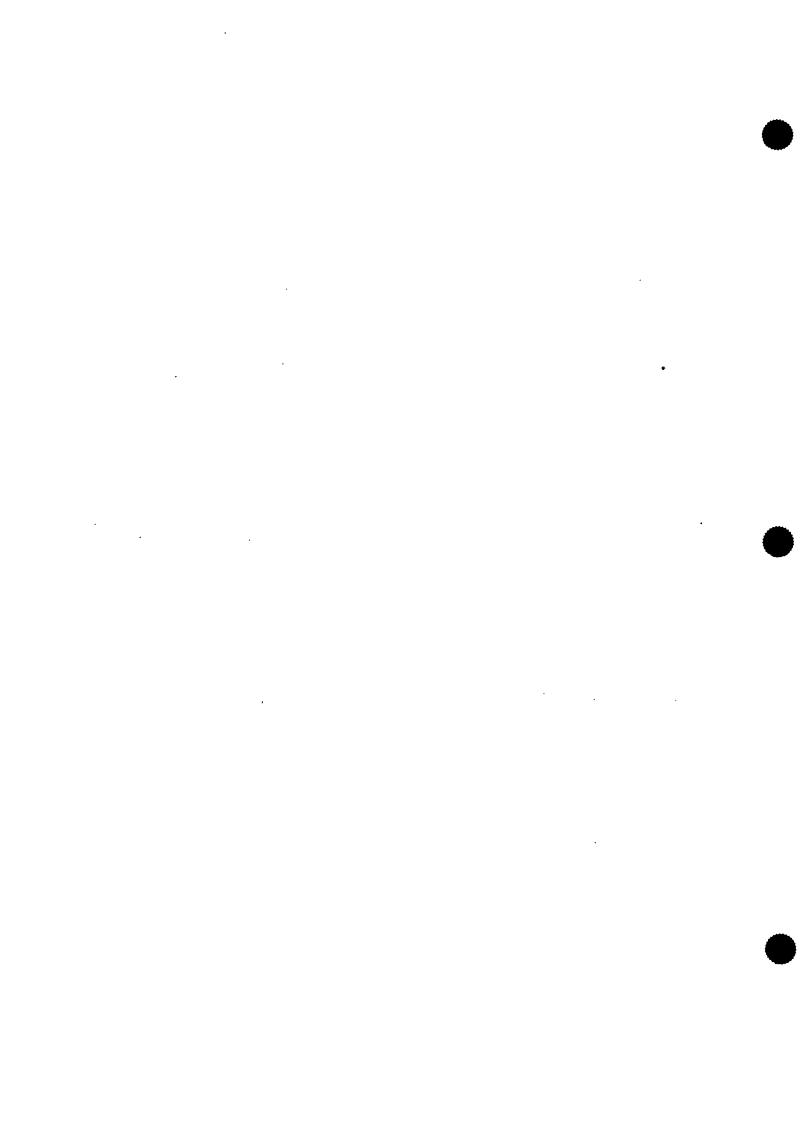


Figure 1b National Response System Concepts: Planning NRT Nuc. DOI DOC DOJ HHS DOT Reg. USCG) **EPA** Comm. (vice (chair) USDA DOD DOS **GSA** DOE FEMA chair) DOL * 13 RRTs for Standard Federal Regions I-X (mainland); Caribbean, Oceania (Pacific Basin), & Alaska **(19)** (RFT) (RET) RRT ' Inland Area Nuc. Coastal Area DOI DOC DOT DOJ HHS Reg. Comm. **EPA** USCG Region¹ USDA DOD District(s) DOS GSA DOE FEMA DOL (co-chair) (co-chair) Coastal Area State(s)-**SERCs** Coastal Area **LEPCs** Sources of Input and Guidance to Area Committees Government **Non-Government** (sec. 300.145) (57 FR 15198) Strike Teams Facility and vessel owners/operators² **NPFC** Shipping company representatives ² Federal laws (e.g., CWA Sec. 1 RRT serves as the Area **ERT** Cleanup contractors 311(i)(5), Clean Air Act Sec. 112(r), RERT Committee for inland areas Emergency planning and response officials OSHA (Process safety regulations) not covered by a separate DRG Marine pilot associations require facility owner/operators to Area Committee, unless a DRAT Members of academia prepare a response plan. SSC separate Area Committee is Environmental advocacy groups Additional description is found in designated by the Regional PIAT Response organizations/officers. Section 300.211. **SUPSALV** Administrator (57 FR 15198). Citizens

81LING CODE 856-56-C
(3) The USCG District boundaries are shown in the following Figure 3:







APPENDIX D

- 1. REGION VII LEPCs
- 2. REGION VII SERCs
- 3. REGION VII RRT MEMBER LIST
- 4. AREA COMMITTEE MEMBERS
- 5. EMERGENCY CONTACTS LIST

APPENDIX D.1

REGION VII LEPCs

LEPC CHAIRPERSONS		June 1993	
Adair County	515/743-6111		Marvin Ford, LEPC Chair Board of Supervisors County Courthouse Greenfield, Iowa 50849
Adams County	515/322-4444		Jon McAlpin, LEPC Chair Emergency Management Agency R.R. #4 Corning, Iowa 50841
Allamakee Co.			Neil E. Becker, LEPC Chair Sheriff's Office County Courthouse Waukon, lowa 51272
Appanoose Co.	515/856-2314		L. Jay Johnson, LEPC Chair Emergency Management Agency 510 W. Maple Street Centerville, Iowa 52544
dubon County	712/563-2611		Roger Hansen, LEPC Chair Audubon County Hospital 515 Pacific Street Audubon, Iowa 50025
Benton County	319/472-2337		Ken Popenhagen, LEPC Chair Sheriff R.R.#1 Atkins, Iowa 52206
Black Hawk Co.	319/291-4459		Stanley Stapella.Chair Waterloo Fire Department 426 E. Third Waterloo, Iowa 50703
Black Hawk Co.	319/291-4373		Gary Blair, Secretary Emergency Mangement Agency City Hall, 715 Mulberry Waterloo, Iowa 50704
Bremer County	319/352-5040	·	Evelyn Koepke. LEPC Chair County Board of Supervisors County Courthouse Waverly, Iowa 50677
Puchanan Co.	319/334-3578		Leo Donnely, LEPC Chair Board of Supervisors County Courthouse Independence, Iowa 50644

Buena Vista Co.	712/732-5102	Ron Wilson, LEPC Chair Storm Lake Fire Departement 820 Oneida Storm Lake, Iowa 50588
Butler County	319/257-2410	Timothy Junker, LEPC Chair Sheriff's Office 428-6th St. Allison, Iowa 50602
Calhoun County '''	712/297-7583	William Davis, LEPC Chair Sheriff's Office 304 Court St. Rockwell City, Iowa 50579
Carroll County	712/792-2458	Donald Dreesen, LEPC Chair 916 W. 21st St. Carroll, Iowa 51401
Cass County	712/243-4570	Chuck Rieken, LEPC Chair Board of Supervisors County Courthouse. 7th and Chestnut Atlantic, Iowa 50022
Cedar County	319/886-2121	Jill Randolph, LEPC Chair Sheriff's Office County Courthouse Tipton, Iowa 52772
Cerro Gordo Cu.	515/421-3640	Ron Van Horn. LEPC Chair Fire Departement 350 - 5th St. Mason City, Iowa 50401
Cherokee Co.	712/225-3102	Board of Supervisors County Courthouse Cherokee, Iowa 31012
Chickasaw Co.	515/394-2406	Ken Rasing, LEPC Chair Emergency Management Agent Box 214 New Hampton, Iowa 50659
Clarke County	515/445-5539	Steve Smith. LEPC Chair Board of Supervisors Clarke County Courthouse Osceola, Iowa 50213

Clay County	712/262-3522	Gary Stover, LEPC Chair 518 - 9th Avenue W Spencer. Iowa 51301
u Clayton Co.	319/252-2176	Owen Pufahl, LEPC Chair Emergency Management Agency 322 1st Street Guttenberg, Iowa 52052
✓ Clinton County	319/243-6210	Ross Spooner, LEPC Chair Board of Supervisors County Courthouse Clinton, Iowa 52732
Crawiord Co.	712/675-4558	LeRoy A. Hansohn. Chair Board of Supervisors County Courthouse Denison, Iowa 51442
Dallas County	515/993-4567	Jerry Harmon, LEPC Chair Sheriff's Office 201 N. 8th. Box 229 Adel, Iowa 50003
Davis County	515/664-2054	Craig Scott, LEPC Chair Emergency Management Agency P.O. Box 184 Bloomfield, Iowa 52537
Decatur County	515-446-4382	William Ballantyne, LEPC Ch Board of Supervisors County Courthouse Leon, Iowa 50144
Delaware Co.	319/927-3410	Bob Clemen, LEFC Chair Board of Supervisors County Courthouse Manchester, Iowa 52057
Des Moines Co.	319/753-8206	Pat Wondra. LEPC Chair Emergency Management 512 N. Main Street Burlington, Iowa 52601
Dickinson Co.	712/336-1675	Lynn Wallace, LEPC Chair Emergency Mangement Agency RR #9 - Box 9182 Spirit Lake, Iowa 51360

/ Dubuque County	319/589-4170	Robert Goocn. LEPC Chair Central Fire Headquarters 9th and Central Dubuque, Iowa 52001
Emmet County	712/362/4812	Roger Anderson, LEPC Chair Board of Supervis 221 W. N. 4th Street Estherville. Iowa 51334
Fayette County	800/828-1124	Jake Blitsch. LEPC Chair U.S. West 442 S. Frederick Oelwein, Iowa 50662
Floyd County	515/228-7111	Neil Griffin. LEPC Chair Floyd County Courthouse Charles City, Iowa 50616
Franklin Co.	515/456-4254	Donald Friest, Contact Courthouse Box 335 Hampton, Iowa 50441
Fremont County	712/374-2415	Keith Hickey, LEPC Chair Board of Supervisors County Courthouse Sidney, Iowa 51652
Greene County	515/386-2136	Dennis Morlan. LEPC Chair 204 N. Grimmell Rd Box 416 Jefferson. Iowa 30129
Grundy County	319/824-6933 319/345-2193	D. Sheridan Roberts. LEPC Chail 705 - 8th Street Grundy Center, Iowa 50631
Guthric County	515/747-8320	Jerry Caraher, LEFC Chair Board of Supervisors 200 N. 5th St., Courthous, Guthric Center, Iowa 501
Hamilton County	515/832-3525	Miles Butler, LEPC Chair Board of Supervisors Courthouse Webster City, Iowa 50595
_ncock County	515/923-2702	Cliff Smith. LEPC Chair Emergency Management Agen 875 State Street Garner, Iowa 50438

Hardin County	5 15-658- 38 22	Lyle Jeske. LEPC Chair T&C Mobile Home Pk. #22 Eldors. Iowa 50627
Harrison County	712/644-2839	Zane McBride, LEPC Chair 323 North 4th Ave. Logan. Iowa 51546
Henry County	319/385-1479	Ed Farley, LEPC Chair Emergency Management 220 W. Monroe Mt. Pleasant, Iowa 52641
Howard County	319/547-2636	James Kovarik, LEPC Chair Emergency Management Agency County Courthouse Cresco, Iowa 52136
Humboldt County	515/332-1453	Jean Kleve, LEPC Chair City of Humboldt City Hall Humboldt, Iowa 50548
Sea County	712/365-4676	Richard J. Madsen, LEPC Cha Emergency Management Agency 301 Walnut Battle Creek, Iowa 51006
Iowa County	319/642-3151	Alan Husband, LEPC Chair Emergency Management Agency 132 W. Marion Marengo, Iowa 51301
Jackson County	319-556-7730 wk. 319-872-4703 hm.	Michael Connelly, LEPC Chas 910 N. Riverview Bellevue, Iowa 52031
Jasper County	515/792-7555	Marlys DeVries, LEPC Chair Jasper Emerg. Mngt. Agency County Courthous. Rm: 108 Newton, Iowa 50208
Jefferson County	315/472-2951	J.R. Simmons, LEPC Chair Board of Supervisors County Courthouse Fairfield, Iowa 52556
Johnson County	319/356-6028	Jim McGinley, LEPC Secreta Emergency Management Agenc P.O. Sox 169 Iowa City, Iowa 62244

Johnson County	319-337-6319	Kerry Fitzpatrick LEPC Chai 2200 Lower Muscatine Rd Iowa City, Iowa 52240
Jones County	319/462-3353	John Christophersen, LEPC Ch Jones County Box 53 Clarence, Iowa 52216
Jones County	319/462-2735	Dianna DeSotel. LEPC Sécret Jones Co. Emergency Mgmt. Courthouse Anamosa. Iowa 52205
Keokuk County	515/622-2902	Bill Kuntz, LEPC Chair Board of Supervisors Keokuk County Courthouse Sigourney, Iowa 52591
	515/295-7120	James Kelly, LEPC Chair Emergency Management Agenc: Courthouse, 114 West State Algona. Iowa 50511
Lee County	319/372-4124	Robert Clark, LEPC Chair Sth St. & Avenue E City Hall Fort Madison. IA 52627
Linn County	319/398-5200	Vern Bagley, LEPC Chair C.R. Fire Dept. 222 3rd St. NW Cedar Rapids. IA 52405
✓ Louisa County	319/523-8174	Marvin Thomas, LEFC Chair Emergency Management Agenc Box 141 Letts, IA 52754
Lucas County	515/774-2018	Richard Arnold. LEPC Chai: Board of Supervisors Courthouse Chariton, IA 50049
Lyon County	712/753-4778	Herb Hage, LEPC Chair Emergency Management Agen 906 S. Story Rock Rapids, Iowa 51273

Madison County	515/462-2255	Marvin Schultz, LEPC Chair Emergency Management Agency 1006 N John Wayne Dr. Winterset, Iowa 50273
Mahaska County	515/673-3469	Joe Warrick, LEPC Chair Board of Supervisors Courthouse Oskaloosa. IA 52577
Marion County	515/828-2220	Marvin Van Haaften. Chair Marion County Courthouse Knoxville. Iowa 50138
Marshall County	515/754-6385	Deanna Neldeberg, LEPC Chair City Hall 24 N. Center St. Marshalltown, IA 50158
Mills County	712/527-3846	Vern Knudtson. LEPC Chair RR #3 Box 263 Glenwood. IA 51534
Mitchell County	515-732-5861	Don Hendrickson, LEPC Chair Board of Supervioses Courthouse Osage, Iowa 50461
Monona County	712/423-1294	Claire Joines. LEPC Chair Emergency Management Agency 909 7th Street Onawa, Ia 51040
Monroe County	515/946-3421	Billy K. Myers, LEPC Chair Board of Supervisors Monroe County Courthouse Albia, Iowa 52531
Montgomery Co.	712/623-5167	Rick Askey, LEPC Chair Red Oak Fire Dept. 1800 Broadway Red Oak, Iowa 51566
/ Muscatine Co.	319/263-6504	Norman Smith, LEPC Chair Biotek Associates 1110 Robin Road Muscatine, IA 52761
O'Brien County	712/757-4305	Anne Koontz. LEPC Chair Communications Ctr. Primgnar, Ia 51245

Osceola County	712/758-3621	Dennis Hout, LEPC Chair Ocheyedan Coop Elevator Assn 1249 - 9th Street Ocheyedan, Iowa 51354
Page County	712/246-4254	Raymond Bryant, LEPC Chair Emergency Management Box 559/815 W. Thomas Shenandoah, Iowa 50538
Palo Alto County	712/424-3436	Henry Bonsetter, LEPC Chair City of Cylinder Cylinder, Iowa 50528
Plymouth County	712/546-7018	Wayne Schipper, LEPC Chair City of Le Mars P.O. Box 1130 Le Mars. Iowa 51031
Pocanaontas Co.	712/335-4744	Lowell Pedersen. LEPC Chair 24 - 3rd Avenue NW Pocanontas. Iowa 50574
Folk County	515/286-2107	Robert Plath. LEPC Chair Polk Co. Office Blds. 1st and Court. Rm 210 Des Moines. Iowa 50309
Pottawattamie	319/547-2636	Sgt. Jeff Danker, LEPC Chai: Sheriff's Dept. 227 S. 6th Council Bluffs, Iowa 51501
Poweshiek County	515/625-5723	Danny Carroll, LEPC Chair Poweshiek County LEPC County Courthouse Montezuma, Iowa, 50171
Ringgold County	515/464-3951	Lyle Minnick. LEPC Chair Sheriff's Department County Courthouse Mount Ayr, Iowa 50854
Sac County	712/662-7127	Duane Rohde, LEPC Chair Sheriff's Department County Courthouse Sac City, Iowa 50854
County	319/326-8663	Bud Whitfield, Coordinator ATTN: Dave Mallott. LEPC C1 416 W. 4th Street Davenport, Iowa 52801

recycled paper

Shelby County	712/755-5160	Robert Seivert. Secretary Shelby County LEPC 612 Court Street Harian. lowa 51537
Sioux County	515/756-8997	Del Walinga, LEPC Chair Sioux County LEPC 410 11th Street Alton, Iowa 51003
Story County	515/382-6581	Don Ellis, LEPC Chair Emergency Management Agency County Courthouse Nevada, Iowa 50201
Tama County	515/484-3760	Patricia Paustian, LEPC Chai P.O. Box 34 Toledo, Iowa 52342
Taylor County	712/523-2846	Michael Ware, LEPC Chair RADA Services 1104 Dodge Bedford, Iowa 50833
Union County	513/782-7918	JoAnn Bradley, LEPC Chair Board of Supervisors County Courthouse Creston, Iowa 50801
Van Buren Co	319/293-3663	Donald Pool. LEPC Chair Van Buren County LEPC County Courthouse Reosauqua. Iowa 52565
Wapeilo County	515/683-0015	Dean Giltner, Co-LEPC Chair Board of Supervisors Wapello County Courthouse Ottumwa, Iowa 52501
Warren Counts	515/961-6386	Eldon Hearvilin, LEPC Chair Emergency Management Agency 1015 Angela Drive Indianola, Iowa 50125
Washington Co.	319/656-2767	Tony Hancock, LEPC Chair Washington County LEPC Emergency Management Agnec: Kalona, Iowa 52247
Wayne County	515-873-4812	Ralph Alshouse Box 36 Seymour, lowa 52590

Webster County	515/573-3111	Ray Andrew, LEPC Chair Towa-Illinois Gas & Electri P.O. Box 519 Fort Dodge, Iowa 50501
Winnebago Co.	515/582-2113	Daniel Davis, LEPC Chair Forest City Police Box 373 Forest City, Iowa 50436
Winneshiek Co.	,319/382-4996	Howard Ness, LEPC Chair Emergency Management Agnay Route #5 Decorah, Iowa 52101
Woodbury County	712/279-6550	Gary Brown, LEPC Chair Woodbury Co. LEPC 1432 Leech Ave. Sioux City, Iowa 51101
Worth County	515/454-2158	Patrick Harnack, LEPC Chai 228E. Walnut Manly, Iowa 50459
Worth County	515-454-2158	Hev Kaduce, LEPC Secretar; Emergency Management Agen; 1000 Central Ave. Northwood, Iowa 50459
Wright County	515/532-3262	Gene Sturgelon, LEPC Chai Board of Superviours Courthouse Clarion, Iowa 50525

LOCAL EMERGENCY PLANNING COMMITTEE CHAIRPERSON LIST

Ronald Moore Chairperson Allen County LEPC Allen County Courthouse 1 North Washington	(316)	365-2117
Iola. KS 56749		

ANDERSON (913) 448-6797
Gary Benjamin Chairperson
Anderson County LEPC
315 Orange Street
Garnett, KS 56032

ATCHISON (913) 367-0216
Susie Pickman Chairperson
Atchison County LEPC
Courthouse
Atchison, KS 66002

BARBER
Chairperson
Barber County LEPC
% Sheriff's Office
Medicine Lodge, KS 57104

BARTON
Marvin Leighton Chairperson
Barton County LEPC
P.O. Box 1089
Great Bend, KS 67530

BOURBON
Marvin Rankin Chairperson
Bourbon County LEPC
Bourbon County Courthouse
210 South National
Fort Scott, KS 66701

LOCAL EMERGENCY PLANNING COMMITTEE CHAIRPERSON LIST

BROWN	(913)	486-2642
Raymond Farrow Chairperson	•	
Brown County LEPC		
Horton Ambulance Service		
240 West 8th		
Horton, KS 66439		

BUTLER (316) 321-3502
Jean Plummer Chairperson
Butler County LEPC
323 1/2 North Main
El Dorado, KS 67042

HASE
(316) 273-8341
Marvin Adcock Chairperson
Chase County LEPC
KS Graphics
Cottonwood Falls, KS 66845

CHAUTAUQUA (316) 725-5785
Mike Champlin Chairperson
Chautauqua County LEPC
215 North Chautauqua
Sedan. KS 67367

CHEROKEE
Greg Sitton Chairperson
Cherokee County LEPC
Alleco Chemical
P.O. Box 247
Galena. KS 66739

CHEYENNE (913) 332-2401
Gary Rogers Chairperson
Cheyenne County LEPC
P.O. Box 985
St. Francis, KS 67756

LOCAL EMERGENCY PLANNING COMMITTEE CHAIRPERSON LIST

CLARK
Etheled Marshall Chairperson
Clark County LEPC
County Commissioner's Office
Box 886
Ashland, KS 67831

CLAY Norman Rettig Chairperson	(913)	632-2575
Clay County LEPC P.O. Box 54		
Clay Center. KS 67432		

CLOUD Sam Budreau Chairperson	(913) 243-3131
Cloud County LEPC 103 West 9th Street Box 402	
Concordia. KS 66901	,

COFFEY	(316)	364-2721
ceorge n. Milis Chairperson	, , ,	304-2121
Coffey County LEPC		
Coffey County Courthouse		
110 South 6th Street		
Burlington, KS 66839		

COMANCHE	(215) 500 000
L. E. Murphy Chairperson	(316) 582-2966
Comanche County LEPC	
307 North Chicago	
Coldwater, KS 67029	

COWLEY Joe Shriver Chairperson Cowley County LEPC	(316)	221-0470
Arkansas City Fire Department 115 South D Street		
Arkansas City, KS 67005		-

LOCAL EMERGENCY PLANNING COMMITTEE CHAIRPERSON LIST

CRAWFORD
Eldon Bedene Chairperson
Crawford County LEPC
Box 385
401 East Melvin
Arma, KS 66712

(316) 724-8274

DECATUR
Bert Cool Chairperson
Decatur County LEPC
P.O. Box 28
Oberlin, KS 67749

(913) 475-2422

DICKINSON

Dale Kuhn. Chairperson & Safety Director
Dickinson County LEPC

700 South Broadway

Herington. KS 67449

DONIPHAN
Julie Heng Chairperson
Doniphan County LEPC
P.O. Box 247
Troy, KS 66087

(913) 985-2380

DOUGLAS
Bob Newton Chairperson
Douglas County Emergency
Planning & Preparedness Board
111 East Eleventh
Lawrence, KS 66044

EDWARDS
Jay Dill Chairperson
Edwards County LEPC
Box 184
Kinsley, KS 67547

(316) 659-2188

LOCAL EMERGENCY PLANNING COMMITTEE CHAIRPERSON LIST

ELK	(316)	374-2108
Janet Lee Chairperson		
Elk County LEPC		
P.O. Box 127		
Howard, KS 67349		

ELLIS
Wayne Schwartz Chairperson
Ellis County LEPC
Hays City Fire
PO Box 490
Hays, IS 57601

ELLSWORTH
Morton D. Reed Chairperson
Ellsworth County LEPC
Box 64
Ellsworth, KS 67439

FINNEY
Max Morgan Chairperson
Finney County LEPC
Department of Public Works
504 St. John
Garden City, KS 57846

FORD
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> List distributed by: The Missouri Emergency Response Commission Division of Flee Safety P.O. Bex 3313 Jefferson City, Missouri 65102 (314) 526-3901

MISSOURI EMERCENCY RESPONSE COMMISSION LIST OF LOCAL EMERCENCY PLANNING COMMITTEES (LEPC)

MULTI-COUNTY LOCAL EMERCENCY PLANNING DISTRICT (LEPD)

Mult: -County Name

Boonslick Emerg. Planning Committee Terry Henderson 516B South Highway 47 P.O. Box 429 Warrenton, MD 03383 5147456-5473 Lincoln Montgomery Warren

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Bootnee: Emerg. Planning Committee
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314/276-2242

Dunklin New Madrid Pemiscot Scott Stoddard

East-West Cateway Network Heien buchmann 911 Washington St. Louis, MD 63101 314/421-4220 Franklin
Jefferson
St. Charles
St. Louis County

Green Hills Emergency Planning Committee Michael R. Johns p15 Main Street Trenton, MD 65683 816/359-5636

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Davies
Grundy
Harrison
Linn
Livingston
Mercer
Putnam
Sullivan

MERC-LEPC LIST Page Two

Meramec Emergency Planning Committee Barbara Black
101 West Tenth Street
Rolla. MO 65401
314/364-2993

Crawford
Dent
Casconade
Maries
Pheips
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Mid-America Regional Council
Hazardous Materials Advisory Committee
Dave Carcia
- 300 Rivergate Center
- 900 Broadway
Kansas City, MO - 64105-1536
- 316/474-4240

Clay Jackson Kansas City Ray

Mid Missouri Emerg. Planning Committee
John van Sickle
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Audrain Callaway Cooper Howard Moniteau Osage

MD-KAN Emergency Planning Committee
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Andrew Buchanan Clinton DeKalb

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Northeast Missour: Emerg. Planning Committee David Davison Suite 208, First Nat. Bank P.O. Box 965 Kirksville, MO 63501 816/665-4615 Adair Clark Knox Schuyler Scotland MERC-LEPC LIST Page Force

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Atchison Holt Worth

JZARK FOOTHILLS Emerg. Flanning Committee
Lon Bell
Dox 1783. LO7 South Main 5t.
Poplar Bluff. MD 63901-1183
J14/785-6402

Butler Carter Reynolds Ripley Wayne

couth Central Czark Emerg. Planning Committee wene cwanson and Porter wagoner Blvd. west Plains. MD 55775-2199 417/256-8123

Douglas Howell Oregon Ozark Shannon Texas Wright

Southeast Missouri Emerg. Planning Committee Thomas U. Tucker P.O. Box 366: West St. Joseph St. Perryville, MD 63775 3147547-8357

Bollinger
Cape Girardeau
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* Master histor

11/05/97

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APPENDIX D.2

REGION VII SERCs

Region VII SERCs

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Iowa Emergency Response Commission Deputy Commissioner, Division of Labor

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KANSAS Mr. Edward C. Redmon, Chair

Kansas Emergency Response Commission

State Fire Marshall Department 700 S.W. Jackson, Suite 600 Topeka, Kansas 66603-3714

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MISSOURI Mr. Stephen Paulsell, Chair

Missouri Emergency Response Commission

Boone County fire Protection District

1520 Business Loop 70 West Columbia, Missouri 65202

(314) 874-7455

NEBRASKA Major General Stanley M. Heng, Chair

Nebraska Emergency Response Commission

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FAX (402) 473-1433

APPENDIX D.3

REGION VII RRT MEMBER LIST

FEDERAL REGION VII STANDING RRT MEMBERSHIP

Co-Chairman: CAPTAIN Robert Luchun

U.S. Coast Guard Second Coast Guard

District

Co-Chairman: Mr. Ron McCutcheon

Environmental Protection

Agency, Region VII

EPA

Environmental Protection Agency . . . (PRIM): Ron McCutcheon

Laboratory (ENSV) 25 Funston Road

Kansas City, KS 66115

WORK: (913) 551-5007 EPA E-MAIL: EPA9780

NOAA E-MAIL: R7EPA

24-HOUR NO: (913) 236-3778 FAX: (913) 551-5035

Laboratory (ENSV) 25 Funston Road

Kansas City, KS 66115

Environmental Protection Agency . . . (ALT): Carol Kather Laboratory (ENSV) WORK: (913) 551-5037 EPA E-MAIL: EPA9780 NOAA E-MAIL: R7EPA

> 24-HOUR NO: (913) 236-3778 FAX: (913) 551-5035

DOT

USCG

U.S. Coast Guard (PRIM): CAPT Robert Luchun Second Coast Guard District (m) WORK: (314) 539-2655 1222 Spruce Street, Room 2.102G

St. Louis, MO 63103-2832

U.S. Coast Guard Second Coast Guard District (meps) 1222 Spruce Street, Room 2.102G

U.S. Coast Guard.

1222 Spruce Street, Room 1.215

Second Coast Guard District

St. Louis, MO 63103-2832

St. Louis, MO 63103-2832

Commanding Officer Marine Safety Office

EPA E-MAIL: EPA97022 NOAA E-MAIL: CGD2

24-HOUR NO: (314) 539-3706 FAX: (314) 539-2649

(1st ALT): CDR Ed Morris WORK: (314) 539-2655

EPA E-MAIL EPA97022 NOAA E-MAIL: CGD2

24-HOUR NO: (314) 539-3706 FAX: (314) 539-2649

(CO): CAPT Scott Cooper WORK: (314) 539-3091 EPA E-MAIL: EPA97022

NOAA E-MAIL: MSOSTL

24-HOUR NO: (314) 539-3091 FAX: (314) 539-2659

Revision 1 December, 1994 U.S. Coast Guard (RRT COOR): CDR Mike Schafersman Second Coast Guard District (meps-1) WORK: (314) 539-2655 1222 Spruce St., Room 2.102G EPA E-MAIL: St. Louis, MO 63103-2832 NOAA E-MAIL: MSOSTL 24-HOUR NO: (314) 539-3706

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401 Fairgrounds Road NOAA E-MAIL: Pending
Rolla, MO 65401 24-HOUR NO: Answering
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Rolla, MO 65401 24-HOUR NO: Answering
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Mark Twain National Forest
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(PRIM): Jerry Unwin WORK: (210) 221-9320 Headquarters - 5th U.S. Army ATTN: AFKB-OP-P (Contingency Plans Br.) EPA E-MAIL: EPA97015 NOAA E-MAIL: R7ARMY Ft. Sam Houston, TX 78234-7000 24-HOUR NO: (210) 221-2901 (210)221-0017 FAX: (210) 221-9485 . . (ALT): Tom Hendricks United States Army Headquarters - 5th U.S. Army WORK: (210) 221-1772 EPA E-MAIL: EPA97015 ATTN: AFKB-OP-E NOAA E-MAIL: R7ARMY (Current Operations Br.) 24-HOUR NO: (210) 221-2901 Ft. Sam Houston, TX 78234-7000 (210)221-0017 FAX: (210) 221-0301 **USAF** (PRIM): Raymond Bruntmyer (214) 767-4668 WORK: EPA E-MAIL: EPA97016 Dallas, TX 75202-5023 NOAA E-MAIL: R7USAF 24-HOUR NO: --NONE (214) 767-4661 FAX: AFCEE/CCR-D (ALT): Thomas Manning (214) 767-4669 525 S. Griffin St., Suite 505 WORK: EPA E-MAIL: EPA97016 Dallas, TX 75202-5023 NOAA E-MAIL: R7USAF 24-HOUR NO: --NONE--(214) 767-4661 FAX: (POC): Craig Berstein AFCEE/CCR-D WORK: (214) 767-7688 525 S. Griffin St., Suite 505 EPA E-MAIL: Dallas, TX 75202-5023 NOAA E-MAIL: --NONE--24-HOUR NO: FAX: (214) 767-4661 COE (PRIM): Doug Strohbehn U.S. Army Corps of Engineers WORK: (402) 697-2539 Missouri River Division P.O. Box 103 DTS EPA E-MAIL: EPA97013 Omaha, NE 68101-0103 NOAA E-MAIL: R7COE 24-HOUR NO: (402) 697-2539

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Benjamin Franklin Station Washington, D.C. 10044

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(ALT): Scott Blaze
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NOAA E MAIL: R7DOJ
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APPENDIX D.4

AREA COMMITTE MEMBERS

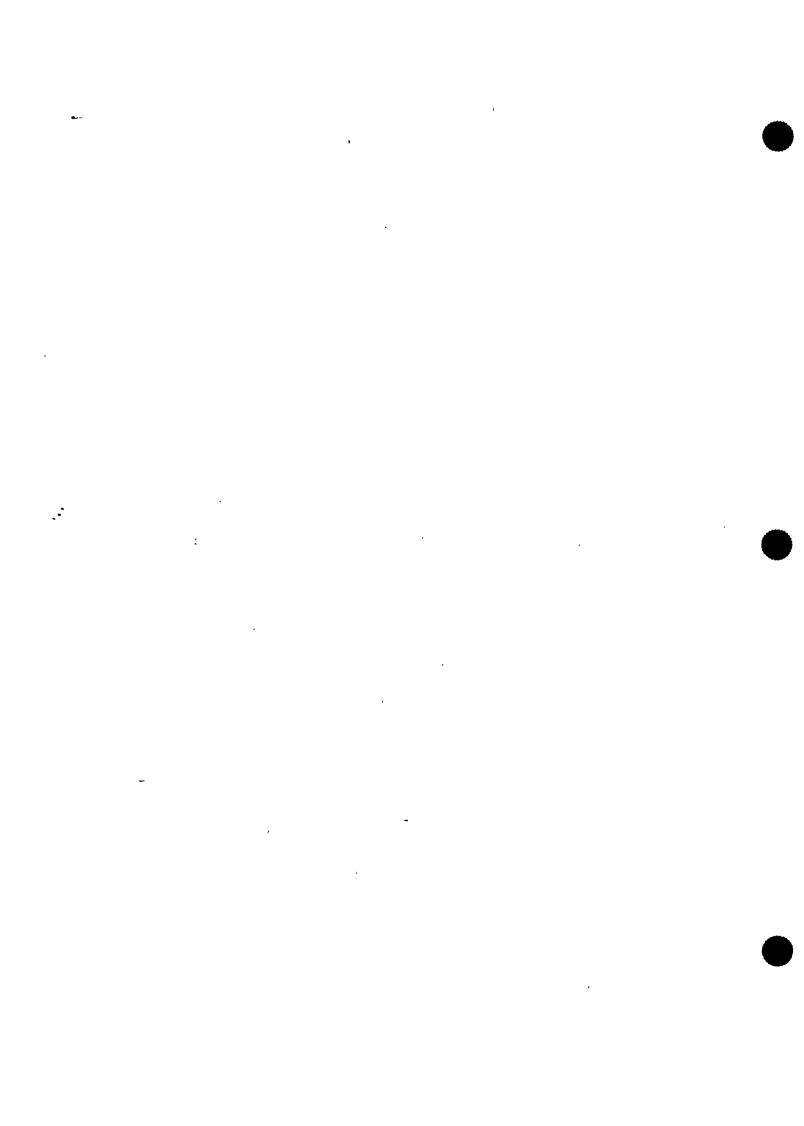
MEMBERSHIP IS THE SAME AS RRT

FOUND IN APPENDIX D.3

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APPENDIX D.5

EMERGENCY CONTACTS LIST



APPENDIX D.5

EMERGENCY RESPONSE CONTACTS

National Response Center(NRC)	800-424-8802
USCG, Second District	314-539-3706
EPA, Region VII	913-236-3778
Iowa Department of Natural Resources 24-hour Emergency Response	515-281-8694
Kansas Dept. of Health & Environment	913-296-1500
Missouri Dept. of Natural Resources	314 - 634-243 6
Nebraska Dept of Environmental Quality 24-hour Emergency Response	402-471-4545
Agency for Toxic Substance & Disease Registry(ATSDR)	404-347-4062
American Petroleum Institute	202-682-8000
Bureau of Explosives via CHEMTREC	800-424-9300
Centers for Disease Control(CDC)	404-639-2888
Chemical Transportation Emergency	800-424-9300
Emergency Response Team	908-321-6660
National Pesticides Telecommunication Network	800-858-7378
National Pollution Fund Center(NPFC)	703-235-4756
OSHA Hot-Line	800-321-6742
RCRA/CERCL Hot-Line	800-424-9346
Safe Drinking Water Act	800-426-4791
SARA/CEPP Hot-Line	800-535-0202

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Scientific Support Coordinators(SSC)	202-526-6317
NIOSH Technical Information	800-356-4674
National Fire Equipment System	209-466-9512
USCG National Strike Force Coordination Center Atlantic Strike Team 609-724-0008 Culf Strike Team 205-639-6601	919-331-6000

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DEPARTMENT OF THE INTERIOR HAZARDOUS MATERIALS/OIL SPILL COORDINATORS

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APPENDIX E

FUND REIMBURSEMENT (NPFC)

UNDER DEVELOPMENT

APPENDIX F

REGION VII SPILL HISTORY

110N VII

EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

MATERIAL (quantity) SCHROE CASE NUMBER RESPONSIBLE PARTY CAUSE INCIDENT LOCATION RPT-DATE WATERWAY AFFECTED CITY, ST., (CHTY) PPT-TIME #6 FUEL DIL (4000 gailons) PIPELINE 03089TJC1600 EXCEL CORP NW 1/4 SEC 16 T17N R3E (WEST HWY 30 NOME , HE (COLFAX) O MRS. NATURE OF INCIDENT : 24 RETURN LINE CRACKED DUE TO FREEZING. RESPONSE ACTION : COMPANY REPORTED THAT SPILL WAS CONTAINED & NO RELEASE TO ENVIRONMENT OCCURRED JP-4 JET FUEL (40000 gailons) PIPELINE 12110HM 1600 KINLEY COMPANY CAPEHARY ROAD (OVER PAPID CREEK)
BELLEVUE, NE (SARPY) EGUIPMENT FAILURE 12/11/90 PAPIO CREEK 1600 HRS. NATURE OF INCIDENT : PIPELINE - NO SPILLAGE OCCURED YET AT TIME OF CALL. RESPONSE ACTION : REPAIRED. SECONDARY CONTAINMENT MEASURES SET UP DOWNSTREAM WHILE CREW WORKED. 03179JU1050 MARATHON PIPELINE CRUDE DIL (100 barreis) PIPELINE 4 MI ESE OF GURLEY 03/17/89 GURLEY, NE (CHEYENNE) CREEK O MRS. NATURE OF INCIDENT : 6" PIPELINE IS LEAKING PONSE ACTION : CLEANUP EQUIP INFOUTE, SPILL IS CONTAINED, WILL USE VAC TRUCKS TO CLEAN UP. MGF1200 ANGCO PRODUCTION CO. SALTHATER BRINE (8410 gailons) PIPELINE 0 HRS. INDIANOLA, HE (RED WILLOW) NOME NATURE OF INCIDENT : INJECTION LINE LEAK OF SALTHATER BRINE. MATERIAL RAN DOWN HILL & COLLECTED RESPONSE ACTION : BACK-TRUCK TO PUSH COLLECTED MATERIAL, ABSORBANT PAGE USED TO CLEAN UP OIL. 11090GH 1200 COMOCO PIPELINE CO GASOLINE: AUTOMOTIVE 4.23G PB/G (200 barrets) PIPELINE 11/09/90 1257 HRS. NORTH PLATTE, NE (LINCOLN) NATURE OF INCIDENT : RESPONSE ACTION : STOP SPRAY AND FIXING EQUIPMENT. PICKING UP REMAINING MATERIAL.

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

SOURCE RESPONSIBLE PARTY MATERIAL (quantity) CASE NUMBER CHIRE RPT-DATE INCIDENT LOCATION WATERWAY ASSECTED CITY, ST., (CMTY) RPT-TIME CASOLINE: AUTOMOTIVE (4.23G PB/G (1100 galions) FIXED FACILITY 0228199 1520 FARMLAND INDUSTRIES OPERATIONAL ERROR 02/28/91 PANNANDLE CO-OP ASSOC. SRIDGEPORT, NE (MORRILL) 1520 HRS. HATURE OF INCIDENT : RESPONSE ACTION : COMPANY CLEANUP WITH STATE MONITORING. WILL EXCAVATE THE CONTAMINATED SOIL. HYDRAULIC DIL (500 gailons) FIXED FACILITY 07062M 2032 HONROE AUTO EQUIPMENT OPERATIONAL ERROR 07/06/92 121 MERIDIAN DR. STORM DRAIN-BARROW PIT COZAD, NE (DAWSON) :32 HRS. NATURE OF INCIDENT : PUMPING OUT RAIL CAR - OPERATOR ERROR. ON FAC RESPONSE ACTION : PUMPING MATERIAL UP AND DIKED OFF THE STORM DRAIN. 12198HGF1100 AMOCO PRODUCTION COMPANY CRUDE OIL (2100 gations) FIXED FACILITY 12/19/88 SLEEPY HOLLOW FIELD/WALL BATTERY FA O HRS. INDIANOLA, NE (RED WILLOW) E OF INCIDENT : OIL SPILLED INTO A DRAW. HIGRATED ABOUT 430 FT. HISE ACTION : APPLIED FRESH WATER. REMOVED BY VACLAM TRUCK, SPRAYED PETREGREEN, SOURCE PLUGGED. OIL, FUEL: NO. 2 (11 barreis) FIXED FACILITY 06200M 1127 WILLIAMS PIPELINE CO 5 BLKS SOUTH OF O ST ON SU 40TH ST 06/21/90 2011 LINCOLN, HE (LANCASTER) 15 HRS. NATURE OF INCIDENT : RESPONSE ACTION : MATERIAL WAS CONTAINED IN A DITCH AND A VACUAM TRUCK WAS USED TO RECOVER. FIXED FACILITY 35261K 2055 UNION PACIFIC RAILROAD OIL: DIESEL (3000 gailons) EQUIPMENT FAILURE 05/26/91 SERVICE TRACKS NP NX-284E NORTH PLATTE, NE (LINCOLN) 2055 HRS. NATURE OF INCIDENT : PIPELINE TO LOCOMOTIVE REFUELING STATION FAILED. RESPONSE ACTION : CONTRACTOR ENROLITE WITH VACUAM TRUCKS.

EMERGENCY PLANNING AND RESPONSE BRANCH 'INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

MATERIAL (quantity) SCURCE CASE NUMBER RESPONSIBLE PARTY RPT-DATE INCIDENT LOCATION CAUSE CITY, ST., (CKTY) WATERWAY AFFECTED SPT-TIME 07028SB1620 Q'S RESTAURANT GASOLINE (2500 gailons) ABOVE GROUND TANK 07/02/88 3 MILE MARKER LAKE OZARK LAXE LAKE CZARK, NO (MILLER) 1620 HRS. NATURE OF INCIDENT : ABOVEGROUND TANK RUPTURED DURING FILLING PROCESS & SPILLED 2,500 GAL. RESPONSE ACTION : ALL SPILLED MATERIAL CONSUMED BY FIRE. 06129JW1240 AYERS DIL COMPANY OILS: GASOLINE (15000 gailons) ABOVE GROUND TANK 06/12/89 PHILLIPS 66 STATION UNICHOLIN MEMPHIS, NO (SCOTLAND) UNIONOLIN NATURE OF INCIDENT : ABOVE GROUND TANK - LEAK WAS IN UNDERGROUND PIPING. RESPONSE ACTION : COMPANY IS REPAIRING LINE. TRYING TO COVER-UP. #2 FUEL DIL (18000 gations) 02188JW1110 TELEDYNE NEOSHO INC. ABOVE GROUND TANK 3551 DONIPHAN DR/TELEDYNE NEOS 02/18/88 NEOSHO, NO (NEWTON) CREEK NATURE OF INCIDENT : ABOVE GRAD TANK LEAKED TO CONTAINMENT AREA THEM -100 G LEAKED TO CREEK PORPONSE ACTION : SORBENT IN CREEK AND CONTAINMENT AREA BEING PUMPED OUT · ,_____ GASOLINE (3000 gations) 'W 1530 PARKER OIL CO. ABOVE GROUND TANK WEE WILLYS' GAS STATION, RR 1 BOX 301 FOLISMENT FAILURE POPLAR BLUFF, HO (BUTLER) NATURE OF INCIDENT : GAS STATION / LEAKING ABOVE GROUND STORAGE TANK. RESPONSE ACTION : THE LEAKING TANK HAS BEEN REMOVED. GASOLINE (2500 gailons) 092488M2320 PHILLIPS 66 ABOVE GROUND TANK 09/24/88 AA YUK & OOL YUH 2320 HRS. SPRINGFIELD, MO (CHRISTIAN) DITCH NATURE OF INCIDENT : 4" HOLE IN ABOVEGROUND TANK RESPONSE ACTION : SPRINGFIELD FIRE DEPT ON SCENE. SANDBAGGING THE DITCH. 06302CAB1220 SOUTH COUNTY TECH SCHOOL DIST DIESEL (20000 gallons) ABOVE GROUND TANK 9268 ROTT ROAD 06/30/92 EQUIPMENT FAILURE SUMSET HILLS, MO (ST. LOUIS) NATURE OF INCIDENT : DIESEL TANK RUPTURED / TANK RUSTED OUT. RESPONSE ACTION : SCHOOL DISTRICT HIRED CONTRACTOR TO CLEANUP SPILL. SPRING & LAKE STILL AFFECTED BY OIL.

1EGION VII

EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

RPT-DATE	RESPONSIBLE PARTY INCIDENT LOCATION CITY, ST., (CNTY)	MATERIAL (quantity)	SOURCE CAUSE VATERMAY AFFECTED
12239K 1815 12/23/89 1815 HRS. NATURE OF INC RESPONSE ACTI	UNION PACIFIC R.R. MP-36.5, MISSISSIPPI LINE PLANT , NO (ST. GENEVIEVE) IDENT : LOCOMOTIVE MP-2174 FUEL TANK. ON :	DIESEL FUEL (2300 gallons)	RAILWAY TRANSPORTATION ACCIDEN GROUND WATER
03063K 1625 03/06/93 1717 HRS.		IVE TANKS. Y WILL HAVE PERSON RESPOND ON SCENE.	RAILWAY TRANSPORTATION ACCIDES
04/12/92 1836 HRS. MATURE OF INC	NORFOLK SOUTHERN RAILROAD HILEPOST S9.6 FERGUSON, MO (ST. LOUIS) HILEPOST S9.6 LIDENT : DERAILMENT / TANK CAR IS LEAKING. HILENT : RR IS ON-SITE, MONR TO SEND OR	SERVOR CHECKED WITH TEETER AT 1802 HOURS.	RAILWAY TRANSPORTATION ACCIDES
UF109K 1910 09/10/89 1940 HRS. NATURE OF INI RESPONSE ACT	UNION PACIFIC RR UNION PACIFIC ST. JOSEPH YARD ST JOSEPH, HO (BUCHANNAM) CIDENT: ION: CLEANUP CREWS ARE ENROUTE	DIESEL FUEL (2200 gailons)	RAILWAY SOIL
02218JV0655 02/21/88 655 HRS. NATURE OF IN	UNION PACIFIC RR LESPERANCE ST YARD ST LOUIS, HO (ST LOUIS) CIDENT : RAIL ENGINE UNIT UP#2175 DERAI ION : SOIL NEAR TRACKS, HAD SOAKED I	DIESEL FUEL (3000 gations)	RAILWAY GROUND WATER

EGION VII

EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

SOURCE CASE NUMBER RESPONSIBLE PARTY MATERIAL (quantity) CAUSE INCIDENT LOCATION RPT-DATE WATERWAY AFFECTED CITY, ST., (CNTY) RPT-TIME OIL: DIESEL OIL (7000 gations) HIGHLAY 081618H 1635 WALLACE OIL COMPANY TRANSPORTATION ACCIDE 08/16/91 HWY 185 AT MERANEC STATE PARK , HO (FRANKLIN) 1635 HRS. NATURE OF INCIDENT : TANKER TRUCK / ACCIDENT. RESPONSE ACTION : DELTA ENVIRONMENT ON SCENE. GASOLINE (8250 gations) H I GHLLAY 03093GH 1440 ROBERTSON WILLIAMS BROADUAY EXTENSION (169) AND HUY 9 NORTH TRANSPORTATION ACCID 03/09/93 BOUND LANE 1440 HRS. KANSAS CITY, HO (CLAY) NATURE OF INCIDENT : TRANSPORTATION ACCIDENT / APPROX. 1000 GAL REMAINED IN TANK. RESPONSE ACTION : EPA/EPER ONSCENE AT 1445 HOURS. KCMO HEALTH WILL WORK WITH TRUCKING INSURANCE CO TO HAVE TEST CONDUCT CLEANUP. HO WATERWAY AFFECTED. 04208GH1210 UNKNOWN OILS,:HISC : MOTOR (7100 gailons) HIGHNAY FIXED FACILI 04/20/88 E ME E. HWY 435 ON HWY 210 DUMPING DITCH 710 HRS. KANSAS CITY, HO (CLAY) TRE OF INCIDENT : WASTE OIL BEING DUMPED ON PROPERTY, INDUSTRIAL PARK. ONSE ACTION : HONR WILL HAVE INVESTIGATED. OILS: GASOLINE (20000 gailons) 06039DES0230 UNKNOWN 06/03/89 UNKNOWN
POLO, HO (CALDWELL) OTKER UNICHOLIN NATURE OF INCIDENT : SPILLED FROM TANK INTO ROADSIDE DITCH. RESPONSE ACTION : TRIED TO CONTACT FIRE CHIEF BUT LINE WAS BUSY. ASPHALT EMULSION, E-A 300 (35000 pounds) 06309RC 1345 KOCH SERVICES 06/30/89 2 MI. WEST OF TOURISONS 2 MI. WEST OF TOWN ON HWY 50 TRANSPORTATION ACCII NOME NATURE OF INCIDENT : SEMI TANKER OVERTURNED SPILLING CONTENTS. RESPONSE ACTION : SPRAYING SAND ON EMULSION. WILL TAKE SOLIDIFIED MATERIAL TO LANDFILL. RE-

EGION VII

EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

MATERIAL (quantity) SCHROP CASE NUMBER RESPONSIBLE PARTY CAUSE INCIDENT LOCATION RPT-DATE WATERWAY AFFECTED CITY, ST., (CHTY) RPT-TIME UNDERGROUND TANK 09161DES1318 RIEDERS JIFFY MARKET GASOLINE (5000 gailons) EQUIPMENT FAILURE HW 248 AND SHEPARD OF HILLS EXPRESSWAY 09/16/91 INTERSECTING 1318 HRS. BRANSON, HO (TANEY) NATURE OF INCIDENT : PIPING BETWEEN STORAGE TANK AND PUMP / LEAK IN PIPING UNDERGROUND. RESPONSE ACTION : NOTIFIED MONR. 10021GH 1455 INDEPENDENCE WATER CONT OIL, FUEL: NO. 2 (11000 gattons) UNDERGROUND TANK EQUIPMENT FAILURE 9600 NORLEDGE 10/02/91 INDEPENDENCE, MO (JACKSON) 1545 HRS. NATURE OF INCIDENT : UNDERGROUND TANK / VALVED INCORRECTLY. RESPONSE ACTION : SURFACE CLEANUP SOIL YET BE REMOVED LINDERGROUND TANK 031180E1655 PETRO TRUCK STOP CASOLINE (3300 gailons) 03/11/88 1-44 AND HWY. 43 SOUTH NONE 1655 HRS. JOPLIN, MO (NEWTON) FIRE OF INCIDENT : CASOLINE SPILLED TO RECOVERY WELL IN TANK PIT WHILE UNLOADING TO UST. ONSE ACTION : RP PUMPED GASOLINE & WATER FROM RECOVERY WELL. SRO WILL MONITOR CLEANUP. UNDERGROUNG TANK DIESEL (2300 galions) 12069M 2030 KEEBLER COMPANY 12/06/89 1301 N. CORRINGTON, 1-435 & FRONT STREET 2030 HRS. KANSAS CITY, HO (JACKSON) NOME NATURE OF INCIDENT : UNDERGROUND TANK. DUG UP, AT LEAST DOING SOME EXCAVATION. RESPONSE ACTION : DIESEL FUEL (5000 gailons) UNDERGROUND TANK 12299GH 1730 PEVELY DAIRY EQUIPMENT FAILURE 1001 S. GRAND 12/29/89 CITY SANITARY SELER ST. LOUIS, NO (ST. LOUIS) 1730 HRS. NATURE OF INCIDENT : 17,000 GALLON UNDERGROUND STORAGE TANK. RESPONSE ACTION : MATERIAL ON FLOOR PUMPED TO DRUMS. MATERIAL IN SEWER NOT RECOVERED.

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

MATERIAL (quantity) SCURCE CASE NUMBER RESPONSIBLE PARTY CAUSE INCIDENT LOCATION RPT-DATE WATERWAY AFFECTED CITY, ST., (CNTY) RPT-TIME PIPELINE CRUDE QIL (42000 galions) SHELL DIL 12248K2110 12/24/88 5 MI. EAST VIENNA, HO RIVER VIENNA, HO (MARIES) O MRS. NATURE OF INCIDENT : 22 FT PIPELINE BROKE, CAUSE UNKNOWN RESPONSE ACTION : REIDEL ON SCENE. RECOVERING OIL BY VAC TRUCK. SHELL TO CALL STATE. PIPELINE 12023TJC0115 CONOCO PIPELINE UNLEADED GASOLINE (200 barreis) UNKNOW T44N, R1W, SEC25 NE1/4 US SURVEY 1925 12/02/93 DUBOIS CREEK TO NO RIV WASHINGTON, MO (FRANKLIN) 215 HRS. NATURE OF INCIDENT : A 10" PIPELINE, WOOD RIVER PIPELINE / REL. DUE TO UNKNOWN CAUSE. RESPONSE ACTION : LEPC & FD ONSCENE, NURSING HOME AND MOTEL EVACUATED, HAY BAILS DEPLOYED. BOOMS ARE/WILL BE DEPLOYED, LEAK HAS BEEN SECURED.

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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SOLECE MATERIAL (quantity) CASE NUMBER RESPONSIBLE PARTY CAUSE INCIDENT LOCATION RPT-DATE WATERWAY AFFECTED POT-TIME CITY, ST., (CNTY) FIXED FACILITY GASOLINE (9000 gations) 12218RR1345 SHELL DIL COMPANY SHELL STA., 11201 OLD ST. CHARES 12/21/88 NONE BRIDGETON, NO (ST. LOUIS) O HRS. NATURE OF INCIDENT : FIBERGLAS HAS A HOLE IN IT. RESPONSE ACTION : WORKING ON CLEANUP, INSTALLING RECOVERY SYSTEMS. GILS,:MISC : MOTOR (7100 gailons) HIGHWAY FIXED FACILITY 042086H1210 UNKNOWN DUMPING E MI E. HUY 435 ON HUY 210 04/20/88 DITCH KANSAS CITY, HO (CLAY) 1210 HRS. NATURE OF INCIDENT : WASTE OIL BEING DUMPED ON PROPERTY, INDUSTRIAL PARK. RESPONSE ACTION : MONR WILL HAVE INVESTIGATED. OTHER DIL (10000 gailons) FIXED FACILITY 01118HR1400 SULLIVAN ASPHALT EQUIPMENT FAILURE PACIFIC 01/20/88 RRICK CRY TO MERANEC PACIFIC, MO (FRANKLIN) 1030 HRS. RIVER NATURE OF INCIDENT : LEAKING FUEL OIL TANK CO DID SOME RECOVERY FROM UNDER ICE GASOLINE: AUTOMOTIVE 4.23G PB/G (6000 gations) FIXED FACILITY 04103MAC0900 SCRIVENER OIL CO OPERATIONAL ERROR MARSHALL'S STORE HUY 60, 10 MILES E. 04/10/93 MONITORING WELL SPRINGFIELD 940 HRS. RODGERSVILLE, NO (GREENE) NATURE OF INCIDENT : CAS BY MISTAKE PUMPED INTO MONITORING WELL. RESPONSE ACTION : DISCHARGER STARTED PUMPING AT 0800 HOURS ON/OFF APPROX. 1500 GALLONS PUMPED. 09261WR 0925 SPECIAL SCHOOL DISTRICT GASOLINE (20000 gailons) FIXED FACILITY . UNICHOLIN ON OTHER SIDE OF HIGHWAY FROM CALLER'S 79/26/91 HOUSE ST. LOUIS, NO (ST. LOUIS) NATURE OF INCIDENT : RELEASE FROM SCHOOL PROPERTY MIGRATED TO CALLERS' PROPERTY. RESPONSE ACTION : NOME, MONR INVESTIGATED, COLLECTING SAMPLES, BUT NO ACTION WAS TAKEN.

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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SCHROF MATERIAL (quantity) CASE NUMBER RESPONSIBLE PARTY CAUSE INCIDENT LOCATION RPT-DATE WATERWAY AFFECTED CITY, ST., (CNTY) POT-TIME OIL, FUEL: NO. 2-D (2300 gailons) RAILWAY 07072GH 2105 BURLINGTON NORTHERN R/R BURLINGTON NORTHERN RR - 1/2 MILE WEST TRANSPORTATION ACCIDENT 07/07/92 INTERMITTENT BEAVER CRI 2131 HRS. OF CEDAR BLUFFS CEDAR BLUFFS, KS (DECATUR) NATURE OF INCIDENT : FUEL TANK / UNMAMED ROAD CROSSING - TRACTOR ON LINE. RESPONSE ACTION : IN PROCESS TO INITIATE RESPONSE. OIL: DIESEL (3600 gallons) RAILWAY 07093MAC2300 SOUTHERN PACIFIC LINES KANSAS CITY YARD TRANSPORTATION ACCIDENT 07/09/93 KANSAS CITY, KS (WYANDOTTE) 2347 HRS. NATURE OF INCIDENT : LOCOMOTIVE PUNCTURED FUEL LINE / PUNCTURED FUEL LINE. RESPONSE ACTION : HAZMAT OFFICER AND WATER COMMISSION NOTIFIED. DIKE WILL BE CONSTRUCTED TO CONTAIN MATERIAL. OIL: DIESEL (2500 gallons) RAILWAY 02140JU 1835 UNION PACIFIC R.R. EQUIPMENT FAILURE 02/14/90 RAIL YARD CONCRETE CONTAINMENT MARYSVILLE. KS (MARSHALL) ATTO HRS. AREA. E OF INCIDENT : RAIL LOCOMOTIVE ISE ACTION : PUMPING FUEL OUT OF PIT. 05190PED1830 FARMLAND INDUSTRIES INC. GAS OIL (100 barrets) RAILWAY FARMLAND INDUSTRIES INC. HORTH HWY 183 GROUND PHILLIPSBURG, KS (PHILLIPS) 1919 HRS. NATURE OF INCIDENT : RESPONSE ACTION : DIKED OFF SPILL AREA. COMPANY CREWS WILL BE PERFORMING THE CLEANUPS. RAILWAY OIL: DIESEL (3500 gattons) 03093JH 0001 UNION PACIFIC RAILROAD TRANSPORTATION ACCIDE 03/09/93 WHITE LAW, KS (UNKNOWN) 44 HRS. NATURE OF INCIDENT : LOCOMOTIVE FUEL TANK. TANK RUPTURED DURING DERAILMENT. TRAIN #LKW53-08. RESPONSE ACTION : A SACKHOE WAS USED TO CONSTRUCT A BERM.

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T-TIME	RESPONSIBLE PARTY INCIDENT LOCATION CITY, ST., (CNTY)	MATERIAL (quantity)	SOURCE CAUSE VATERWAY AFFECTED
1062JW 2150 1/06/92 241 HRS. ATURE OF THE ESPONSE ACTIO	AMOCO PIPELINE 2 MILES SOUTH OF FREEMAN, NW 24, T 44N, R 33W FREEMAN, MO (CASS) IDENT : 12" CRUDE OIL PIPELINE DN : EPA, EPA/TAT, ESI ONSCI EXCAVATION TO BEGIN AF	OIL: CRUDE (100 barrels) 1/4, SEC / CORROSION LEAK. ENE. ESTIMATE 3 DAYS TO PICK UP FREE PRODUCT, SOIL TER THAT. LEAK MOSTLY STOPPED.	PIPELINE EGUIPMENT FAILURE DITCH > PONY CREEK
7051H 0940 7/05/91 940 HRS. ATURE OF INC ESPONSE ACTI	MARATHON PIPELINE CO ON MUY 24, 3 MILES WEST OF S. SALISBURY, MO (CHARITON) IDENT : RELEASE FROM CRUDE DIL ON : PIPELINE SHUTDOWN. PI	OIL: CRUDE (200 barrets) ALISBURY PIPELINE CKED UP BY VACUUM TRUCK. REMAINING SOIL EXCAVATED.	PIPELINE UNKNOUN
01102DES0120 01/10/92 235 HRS. ATURE OF THO RESPONSE ACTI	PLATTE PIPELINE SEC 13, R17V, T53N (1 HILE SALISBURY STATION) SALISBURY, NO (CHARITON) IDENT : 20" TRANSPORTATION PIP ON : MONE ONSCENE. INSTALL	OIL: CRUDE (1000 barrets) E. OF ELINE / EXPERIENCED LOSS OF PRESSURE IN THE LINE. ED DIKE IN DRAINAGE DITCH. CLEANUP CONTRACTOR ENROUTE.	PIPELINE UNKNOWN TRIBUTARY OF THE CHARITON RIV.
11080M 0115 11/08/90 115 HRS. NATURE OF INC RESPONSE ACT	SHELDON, MO (VERNON) DIDENT: TON: USING A BACKHOE TO DIS	GASOLINE: AUTOMOTIVE 4.23G PB/G (200 barrels) (E OFF THE SPILL. CLEANUP ACTION WILL BE TAKEN.	
062408M 1500 06/24/90 1813 HRS. NATURE OF INC	AMOCO PIPELINE CO. NORTH OF ST. CHARLES MO. ST. CHARLES, MO (ST. CHARLED COUNTY) CIDENT: ION: CONTAINED WHITHIN AN	GASOLINE: AUTOMOTIVE 4.23G PB/G (100 barrets) REAR INTERSEC	PIPELINE LAND
052700ES1320 05/27/90 1414 HRS. NATURE OF IN	ION : NONE.	OIL: CRUDE (1000 barrels) Y 79 LES)	PIPELINE SOIL
10/26/88 855 HRS.	VILLIAMS PIPELINE ST. CHARLES, HO (ST. CHARLE ICIDENT : CONTRACTOR LAYING H20	X-GRADE #2 FUEL OIL (233 barrets) S) LINE BREACHED 8" OIL PIPELINE EANUP. 128 OF 233 BARRELS RECOVERED. HINIMAL SOIL REMOVAL	PIPELINE

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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ASE NUMBER	RESPONSIBLE PARTY INCIDENT LOCATION CITY, ST., (CNTY)	MATERIAL (quantity)	SOURCE CAUSE WATERWAY AFFECTED
04200GH 1400 04/20/90 1400 HRS.	LICHO3892/LEASE-MILLHEISLER B SEG , KS (BUTLER) DENT : OIL PRODUCTION FACILITY	CRUDE DIL (1000 gallons) C,4-26-5	UNDERGROUND TANK EQUIPMENT FAILURE WALMUT RIVER
01213H 0113 01/21/93 156 HRS.	CUSTARD INSURANCE ADJ. ANDERSON CHTY COOP BETWEEN MILEP AND 107 ON US HWY 169. GREELEY, KS (ANDERSON) IDENT: VALVE LEFT OPEN. THE MATERIAL WAS RELEASED	OIL, FUEL: NO. 1 (KEROSENE) (1000 gallone) OST 106 INTO SECONDARY CONTAINMENT.	FIXED FACILITY UNDERGRO TANK OPERATIONAL ERROR
03303H 0924 03/30/93 1020 HRS.	USAF-MCCONNELL AFB 8LDG 1190, MCCONNELL AFB MCCONNELL AFB, KS (SEDGWICK) IDENT : UNDERGROUND TANK LEAKED DL	OIL, FUEL: NO. 2 (1780 gallons) JE TO UNKNOWN CAUSE.	UNDERGROUND TANK UNICHOM
08/28/91 1220 HRS. NATURE OF INC RESPONSE ACTI	FARMERS INSURANCE 11880 COLLEGE BLVD. OVERLAND PARK, KS (JOHNSON) IDENT : FUEL TANK FOR BACKUP GENER ON : EST HIRED TO WALK CREEK B.	ANK AND CLEANUP RESIDUAL CIL.	FIXED FACILITY UNDERGRI TANK EQUIPMENT FAILURE
03253CAB1025 03/25/93 1021 HRS.	FARMLAND INDUSTRIES INC. NORTH HWY 183 PHILLIPSBURG, KS (PHILLIPS) CIDENT: 55000 BARREL TANK / LEAKI COM: PUMPED MATERIAL TO DIHER	OIL: DIESEL (80 barrets) NG STORAGE TANK.	FIXED FACILITY UNDERGR TANK EQUIPMENT FAILURE
01098JR0830 01/09/88 830 HRS.	STRICKER DIL CO. 7-24-10 ZENITH, KS (REND) CIDENT : SALT WATER TANK RAN OVER. ION :	BRINE FROM SW TANK (50 barre(s)	UNDERGROUND TANK

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SCURCE CASE NUMBER RESPONSIBLE PARTY MATERIAL (quantity) INCIDENT LOCATION CAUSE RPT-DATE WATERWAY AFFECTED ROT-TIME CITY, ST., (CMTY) 03233TJC1215 FOUR WAY PRODUCTION CRUDE OIL (120 barrets) ABOVE CROLING TANK EQUIPMENT FAILURE 03/23/93 5 MILES SOUTH OF CITY BOGLE, KS (GRAWN) FARM POND 1215 HRS. NATURE OF INCIDENT : CRUDE OIL STORAGE TANK / LEAK REACHED A FARM POND 1/5 MILE FR TANK SITE. RESPONSE ACTION : KCC HAYS OFFICE CONTACTED AND WILL INVESTIGATE. 02221CAB0815 CABBERT-JONES INC. OIL: DIESEL (1400 gailons) ABOVE GROUND TANK EAST HUY 56 02/22/91 815 HRS. GREAT BEND. KS (BARTON) NATURE OF INCIDENT : ABOVE GROUND TANK. RESPONSE ACTION : NONE 10053JFK1600 SINCLAIR PIPELINE COMPANY DIESEL NO 1 (1200 gattons) ABOVE GROUND TANK 10/05/93 3401 FAIRBANKS EQUIPMENT FAILURE 1600 HRS. KANSAS CITY, KS (WYANDOTTE) NATURE OF INCIDENT : MANUAY GASKET RUPTURED, CONTAINED WITHIN DIKE. GASKET RUPTURED. STONSE ACTION : CLEANED UP SPILL - INDIKE USING WATER TO FLOAT REMAINING DIESEL - IN HOUSE SINCLAIR RESPONSE CHEW. 072320W 1315 KENNY WINN OIL (50 barreis) ABOVE GROUND TANK NEOSHO RIVER, JUST NORTH OF LEROY EQUIPMENT FAILURE 07/23/92 1315 HRS. LE ROY, KS (COFFEY) NATURE OF INCIDENT : PRIVATE OIL SUPLIER RESPONSE ACTION : LEAD LINE BREAK WHICH SIPHONED OIL OUT OF TANK. KANSAS CORP COMMISSION HAS RESPONDERS ON LOCATION. 01241BH 1730 COASTAL DERBY REFINING CO. CASOLINE (75 barrets) ABOVE GROUND TANK EQUIPMENT FAILURE 01/24/91 1100 E. 21ST ST. WICHITA, KS (SEDGWICK) 1730 HRS. NATURE OF INCIDENT : 27,100 BARREL ABOVE GROUND STORAGE TANK / ROOF DRAIN LEAKED. RESPONSE ACTION : YACULM TRUCKS RECOVERED SPILLED MATERIAL. SPILL CONTAINED IN CONTAINMENT DIKE. 042730W 1045 8Y30 DRILLING INC. · CRUDE OIL (50 barreis) ABOVE GROUND TANK FOLISPIENT FAILURE 04/27/93 25662 LIMIT ROAD WINCHESTER, KS (LEAVENWORTH) STRANGER CREEK 1045 HRS. NATURE OF INCIDENT : OIL-MATER SEPARATOR TANK / OVERFLOWING OF TANK. RESPONSE ACTION : UNKNOWN.

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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ASE NUMBER		MATERIAL (quantity)	SOURCE
PT-DATE	INCIDENT LOCATION		CAUSE
	CITY, ST., (CHTY)		WATERWAY AFFECTED
******	*****		
1128671631	LAW PRODUCTION CO.	OIL & BRINE (400 barrets)	FIXED FACILITY
1/12/88	NE & SE /34-16-10/		
631 HRS.	, KS (ELLSWORTH)		NOME
PERPONSE ACT	ION : DITCH WAS DANNED AND WAT	ICH ALLOWED MOVEMENT AT WELL HEAD WHICH IN TURN BRK ER WAS PICKED UP BY TRUCK. WATER FROZE BEFORE PICKUP	
	SAN MAZE PETROLEUM	OIL: CRUDE (40000 gailons)	FIXED FACILITY
01/01/91			
	ALMA, KS (WARAUNSEE)		
NATURE OF IN	CIDENT :		
	ION : FIRE DEPT ON SCENE FIGHT		·
	TOTAL PETROLEUM	OIL: CRUDE (800 barrets)	FIXED FACILITY
	1400 SOUTH # ST		EQUIPMENT FAILURE
1767/75	ARKANSAS CITY, KS (COLLEY)		
NATURE OF IN	CIDENT : OVERFLOWED DUE TO A DEVI	EL GAUGE MALFUNCTION.	
SPONSE ACT	ION : OIL WAS CONTAINED IN CO SPRAY FOAM USED ON SPILI	NTAINMENT DIKE. VAC TRUCKS USED TO PUMP OUT, SOME	
18MU1520	CONSIGNIFICALTH PET CORP	SALTUATER (475 barrels)	FIXED FACILITY
	C/30-28-03W/		,,,,,,,
1520 HRS.	BURTON, KS (HARVEY)		NOME
RESPONSE ACT	TION : VAC TRUCKS PICKED UP WH		
	EXCALIBUR OIL CO.	SALT WATER FROM SYSTEM (300 barreis)	FIXED FACILITY
02/04/88			
O HRS.	BURTON, KS (RENO)		NOME
	CONFUT - ORSTRUCTION IN THE FLOA	T VALVE. WOULD NOT LET IT OPEN.	
NATURE OF IT	ICIDEM! . ORDINATION IN THE TERM	IN DYKE. ABOUT 50-75 BARRELS WENT INTO WHEAT FIELD.	

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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MATERIAL (quantity) STURCE CASE NUMBER RESPONSIBLE PARTY CAUSE INCIDENT LOCATION PPT-DATE WATERWAY AFFECTED CITY, ST., (CMTY) RPT-TIME PETROLM SLUDGE FR TANK CLEANING (90 barrels) HIGHMA 05273JBD1120 VILLIAMS PIPELINE EQUIPMENT FAILURE 05/27/93 1309 SUNSET ROAD EL DORADO, KS (BUTLER) 1215 HRS. NATURE OF INCIDENT : TRANSPORT TANKER / BLOCKS UNDER DOLLY GAVE WAY CAUSING TANKER TO OVERTURN. RESPONSE ACTION : MATERIAL IS BEING RECOVERED WITH VACLAM EQUIPMENT / CONTAMINATED SOIL WILL BE H I CHILAY CASOLINE (8000 gailons) 07108H2100 BECKER CORPORATION TRANSPORTATION ACCIDENT 3RD & MINNESOTA 07/10/88 KAM BIVER KANSAS CITY, KS (WYANDOTTE) 2100 HRS. NATURE OF INCIDENT : MOTOR VEHICLE OVERTURNED RESPONSE ACTION : CONTROL FIRE & FLUSH TO SEWER HIGHLAY OIL: DIESEL (4000 gallons) 05080WR 0900 HAMPEL OIL DISTRIBUTORS KANSAS HOLY 177, 1/2 HILE NORTH OF MATEI 05/08/90 SOIL MATFIELD GREEN, KS (CHASE) 946 HRS. WE TURE OF INCIDENT : TANK TRUCK NSE ACTION : KANSAS DEPARTMENT OF HEALTH AND ENVIRONMENT WILL HANDLE CLEANUP. HIGHLAY VAC-10 ASPHALT (35000 pounds) 11188DR0230 WHEELER TRANSPORT SERVICE NE/7-22-8E 11/18/88 DITCH MATFIELD GREEN, KS (CHASE) 230 HRS. NATURE OF INCIDENT : TRAILER OVERTURNED ON NWY 177 AT THE SOUTH END OFF MATFIELD GREEN. RESPONSE ACTION : BACKHOES & LOADERS WERE USED TO PICK UP THE TAR. ANY AFFECTED SOIL WAS REMOVED. *********************** CASOLINE: AUTOMOTIVE (4.23G PB/G (2900 gailons) 02053K 1555 BECKER CORP PAUNEY AVE AND 135 OVERPASS 02/05/93 DITCH TO WICHITA STP. 1843 HRS. WICHITA, KS (SEDGWICK) NATURE OF INCIDENT : TANKER IN DITCH. RESPONSE ACTION : BOOMS DEPLOYED ON GROUND, WICHITA FO HAZ MAT TEAM ON SCENE.

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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RPT-DATE RPT-TIME	RESPONSIBLE PARTY INCIDENT LOCATION CITY, ST., (CNTY)	MATERIAL (quantity)	Source Cause Waterway affected
• • • • • • • • • • • • • • • • • • • •			**********
	BURLINGTON NORTHERN RR MP 238-239	#2 FUEL OIL (2000 gations)	RAILWAY
1259 HRS. NATURE OF INC RESPONSE ACTI	, IA CHENRY) IDENT: ON : NOTHING AT THIS TIME		BALLST
06 028HD G1107		#2 DIESEL FUEL (4000 gailons)	RAILWAY
NATURE OF INC RESPONSE ACTI	ON : FUEL IS IN CONTAINMENT.	D & ROLLED FORWARD, FRONT TRUCKS CAME OFF R.R. 10 PUMP MATERIAL UP. PROVIDE CONSULTANT NAMES.	HOME
0 6098 8 G17 00	C & N W RAILROAD WEST SIDE OF TOWN	DIESEL FUEL (2500 gailons)	RAILWAY
NATURE OF INC RESPONSE ACTI	ON : DIG SUMP. PUMP RUPTTANK SOIL	TING PICKUP. FUEL ON ONE ENGINE RUPTURED CEMPTY. BLOCK TILE INTAKES. CHECK STREAMS, REMOVE	N OME
U/TJ 1417 02/22/89	SOO LINE R.R. RAILROAD LINE FROM OTTUMMA TO	LUBRICATION OIL (1500 galions) DAVENPORT SA/HNY)	railhay Unknorm Nome
U/TJ 1417 02/22/89 417 HRS. NATURE OF INC RESPONSE ACTI	SOO LINE R.R. RAILROAD LINE FROM OTTUMMA TO DAVENPORT, IA (MUSCATINE/LOUIS EIDENT : FLANGE ON THE BOTTOM OF HON : OIL ABSORBANT PADS ARE B	DAVENPORT SA/HNY) TANK CAR LOOSENED ON THE WAY TO DAVENPORT. SEING USED TO SOAK UP SPOTS OF PRODUCT.	UNICHOUMS NORE
02/22/89 417 HRS. NATURE OF INC RESPONSE ACTI 07113DES2230 07/11/93	SOO LINE R.R. RAILROAD LINE FROM OTTUMMA TO DAVENPORT, IA (MUSCATINE/LOUIS CIDENT : FLANGE ON THE BOTTOM OF CON : OIL ABSORBANT PADS ARE B SOO LINE RAILROAD MILEPOST 75	DAVENPORT SA/HNY) TANK CAR LOOSENED ON THE WAY TO DAVENPORT.	UNKNOWE NOME RAILWAY TRANSPORTATION ACCIDEN
02/22/89 417 HRS. NATURE OF INC RESPONSE ACTI 07113DES2230 07/11/93 2113 HRS. HATURE OF INC RESPONSE ACTI	SOO LINE R.R. RAILROAD LINE FROM OTTUMMA TO DAVENPORT, TA (MUSCATINE/LOUIS CIDENT : FLANGE ON THE BOTTOM OF CON : OIL ABSORBANT PADS ARE B SOO LINE RAILROAD MILEPOST 75 GUTTENBERG, TA (CLAYTON) CIDENT : TRAIN HIT MUD SLIDE & RU ION : RR PERSONNEL REPSONDING UNRECOVERABLE. WILL REP	DAVENPORT SA/HNY) TANK CAR LOOSENED ON THE WAY TO DAVENPORT. BEING USED TO SOAK UP SPOTS OF PRODUCT. OIL: DIESEL (2000 gallons) UPTURED FUEL TANK / FLOOD RELATED. TO THE SITE. MOST OF THE PRODUCT IS IN THE WATER IS MOVE ANY CONTANINATED SOIL.	UNKNOWN NOME RAILWAY TRANSPORTATION ACCIDEN MISSISSIPPI RIVER
02/22/89 417 HRS. NATURE OF INC RESPONSE ACTI	SOO LINE R.R. RAILROAD LINE FROM OTTUMMA TO DAVENPORT, TA (MUSCATINE/LOUIS CIDENT : FLANGE ON THE BOTTOM OF SOO LINE RAILROAD MILEPOST 75 GUTTENBERG, TA (CLAYTON) CIDENT : TRAIN HIT MUD SLIDE & RU TOM : RR PERSONNEL REPSONDING UNRECOVERABLE. WILL REP CHICAGO & N.WESTERM R.R. E. 6TH ST., DOWNTOWN	DAVENPORT SA/HNY) TANK CAR LOOSENED ON THE WAY TO DAVENPORT. BEING USED TO SOAK UP SPOTS OF PRODUCT. OIL: DIESEL (2000 gallons) UPTURED FUEL TANK / FLOOD RELATED. TO THE SITE. MOST OF THE PRODUCT IS IN THE WATER IS	UNKNOWN NOME RAILWAY TRANSPORTATION ACCIDEN MISSISSIPPI RIVER RAILWAY TRANSPORTATION ACCIDEN
02/22/89 417 HRS. NATURE OF INC RESPONSE ACTI 07113DES2230 07/11/93 2113 HRS. NATURE OF INC RESPONSE ACTI 021990JA1049 02/19/89 1049 HRS. NATURE OF INC	SOO LINE R.R. RAILROAD LINE FROM OTTUMAN TO DAVENPORT, TA (MUSCATINE/LOUIS CIDENT : FLANGE ON THE BOTTOM OF SOO LINE RAILROAD MILEPOST 75 GUTTENBERG, TA (CLAYTON) CIDENT : TRAIN HIT MUD SLIDE & RU TOM : RR PERSONNEL REPSONDING UNRECOVERABLE. WILL REM CHICAGO & N.WESTERM R.R. E. 6TH ST., DOWNTOWN LINEVILLE, TA (MAYNE) CIDENT : TRAIN HIT CAR AT DOWNTOWN SOIL.	DAVENPORT SA/HNY) TANK CAR LOOSENED ON THE WAY TO DAVENPORT. BEING USED TO SOAK UP SPOTS OF PRODUCT. OIL: DIESEL (2000 gallons) UPTURED FUEL TANK / FLOOD RELATED. TO THE SITE. MOST OF THE PRODUCT IS IN THE WATER IS MOVE ANY CONTANINATED SOIL. DIESEL FUEL (3000 gallons) AN INTERSECTION. FUEL INTO R.O.W. DITCH & STORM SWR ING FUEL, PUMP UP, CHECK STRM SWR OUTFALL, EXCAVATE	UNKNOWN NOME RAILWAY TRANSPORTATION ACCIDEN MISSISSIPPI RIVER RAILWAY TRANSPORTATION ACCIDEN STORM SEWER
UL/TJ 1417 02/22/89 417 HRS. NATURE OF INC RESPONSE ACTI 07113DES2230 07/11/93 2113 HRS. NATURE OF INC RESPONSE ACTI 021990JA1049 02/19/89 1049 HRS. NATURE OF INC RESPONSE ACTI	SOO LINE R.R. RAILROAD LINE FROM OTTUMAN TO DAVENPORT, TA (MUSCATINE/LOUIS CIDENT : FLANGE ON THE BOTTOM OF SOO LINE RAILROAD MILEPOST 75 GUTTENBERG, TA (CLAYTON) CIDENT : TRAIN HIT MUD SLIDE & RU TOM : RR PERSONNEL REPSONDING UNRECOVERABLE. WILL REM CHICAGO & N.WESTERM R.R. E. 6TH ST., DOWNTOWN LINEVILLE, TA (MAYNE) CIDENT : TRAIN HIT CAR AT DOWNTOWN SOIL.	DAVENPORT SA/HNY) TANK CAR LOOSENED ON THE WAY TO DAVENPORT. BEING USED TO SOAK UP SPOTS OF PRODUCT. OIL: DIESEL (2000 gallons) UPTURED FUEL TANK / FLOOD RELATED. TO THE SITE. MOST OF THE PRODUCT IS IN THE WATER IS MOVE ANY CONTANINATED SOIL. DIESEL FUEL (3000 gallons) AN INTERSECTION. FUEL INTO R.O.W. DITCH & STORM SWR ING FUEL, PUMP UP, CHECK STRM SWR OUTFALL, EXCAVATE DIESEL FUEL, LUBE OIL (3000 gallons)	UNKNOWN NOME RAILWAY TRANSPORTATION ACCIDEN MISSISSIPPI RIVER RAILWAY TRANSPORTATION ACCIDEN STORM SEWER

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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CASE NUMBER

RESPONSIBLE PARTY INCIDENT LOCATION

MATERIAL (quantity)

SOURCE

RPT-DATE RPT-TIME

INCIDENT LOCATION CITY, ST., (CNTY) CAUSE WATERWAY AFFECTED

LOO LINE

LUBRICATION OIL (1500 gailons)

RATLWAY

02229RK 1525 02/22/89 1525 HRS.

FROM 8 MI. W. OF MAHANT TO THE RR YARD MAHANT, IA (SCOTT)

EQUIPMENT FAILURE

NONE

NATURE OF INCIDENT : DEFECTIVE VALVE CAUSED LEAK OF PRODUCT OVER AN 8 MILES STRETCH OF TRACK.

RESPONSE ACTION : WILL INSPECT THE LENGTH OF TRACK FOR POOLED AREAS OR CONDUITS TO WATERWAYS.

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PAGE:

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MATERIAL (quantity) SCLECE CASE NUMBER RESPONSIBLE PARTY INCIDENT LOCATION CAUSE RPT-DATE CITY, ST., (CHTY) RPT-TIME WATERWAY AFFECTED AVIATION FUEL (3000 gattons) 07011PED0900 UNIVERSITY OF IONA UNDERGROUND TANK 07/01/91 2-3 MLS N OF TWN MEAR CAKDALE FAC HW 965 OPERATIONAL ERROR 900 HRS. , IA O CLEAR CREEK > IONA RIV NATURE OF INCIDENT : UNDERGROUND FUEL TANK HELICOPTER PAD / RUPTURED RESPONSE ACTION : NOTIFIED IDNR 7/3/91. GASOLINE (10000 gallons) 01228JR0810 JOHN SCHULTZ CORNER STORE UNDERGROUND TAKE 01/22/88 1-380 ACCESS RD, S EDGE OF TOW 810 HRS. CENTER POINT, IA (LINN) NONE NATURE OF INCIDENT : LOOSE FITTING ON PUMP DISCHARGE RESPONSE ACTION : FIX LEAK. BEGIN CLEAN-UP. CONTACT CONSULTANT FOR HYDROGED'STUDY. 101385G1422 PACE INC. DIESEL FUEL (3941 galions) UNDERGROUND TANK 10/13/88 11-35 TO EUCLID EXIT N., PACE INC. DES MOINES, IA (POLK) O MRS. NONE NATURE OF INCIDENT : NEW TANK WAS INSTALED & CONNECTION IS LEAKING. 29" OF PRODUCT, GRAVEL EXPONSE ACTION : RECOVER PROD., MAKE REPAIRS. HOLE LINED W/CONCRETE PAD. SOIL COMPACTED. JUR 1513 INTERSTATE POWER CO HYDRAULIC DIL (2000 gailons) UNDERGROUND TANK ₩ 720 SOUTH TAFT UNDOLOUM MASON CITY, IA (CERRO GORDO) 1513 HRS. NATURE OF INCIDENT : UNDERGROUND STORAGE TANK LEAK. RESPONSE ACTION : NOME. CALLER REPORTS THAT TANK HAS BEEN LEAKING SINCE AUGUST 15, 1984. 06038RK2000 HUSCATINE POWER & WATER FUEL DIL #2 (8000 gations) UNDERGROUND TANK 06/03/88 3205 CEDAR STREET O HRS. MUSCATINE, IA (MUSCATINE) NONE NATURE OF INCIDENT : UNDERGROUND LEAK. INVENTORY RECOS INDICATE A LOSS. A LEAK IN UNDGRD. RESPONSE ACTION : LINE WAS EMPTIED AND UNCOVERED. HELIUM INJECTED. TRENCHER & BACKHOE USED.

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

RPT-TIME	INCIDENT LOCATION	MATERIAL (quantity)	SOURCE CAUSE WATERWAY AFFECTED
06/24/91 1123 HRS. NATURE OF INC	NAT. COOP. REFINERY ASSC. 825 E. CMAMA BRIDGE RD COUNCIL BLUFFS, IA (POTTAVATOM: IDENT : RUPTURED DRAIN HOSE ON AI ON : CONTAINED IN DIKED AREA	BOVE GROUND STORAGE TANK.	ABOVE GROUND TANK EQUIPMENT FAILURE
03/19/89 0 HRS. NATURE OF INC RESPONSE ACTI	HENDERSON HENDERSON, IA (MILLS) HENDERSON, IA (MILLS) HENDERSON, IA (MILLS) HENDERSON, IA (MILLS) HENDERSON, IA (MILLS) HENDERSON HENDERSON HENDERSON HENDERSON HENDERSON HENDERSON HENDERSON	ARCH 20, 1989.	ABOVE GROUND TANK NOME
022780JA1345 02/17/88 0 HRS. NATURE OF INC	GERRY BAUSTROM KELLERTON, IA (RINGOLD) IDENT : DRIPPING LEAK IN TWO TAN	GASOLINE/DIESEL (5300 ga(tons) KS, VALVES OF ABOVE GROUND STORAGE TANKS. HAVE TRUCK AVAILABLE IN CASE OF FIRE.	ABOVE GROUND TANK
04/16/88 0 MRS. NATURE OF INC	NECHA F.S. COMPANY MAYNARD, IA (FAYETTE) CIDENT : PRODUCT LEAKED FROM AN A	GASOLINE (3000 gallons) BOVE GROUND STORATE TANK UG, PRODUCT PUMPED FROM HOLES. REMAINDER TRANSFRD	AROVE GROUND TANA
04/26/88 0 HRS.		GASOLINE (REGULARL) (536 barreis) RD GOVERFILLED, PRODUCT CONTAINED WITHIN DIKED AREA. GOVERFILLED, CALIBRATION TANK. SUMPS TO BE PUMPED.	ABOVE GROUND TANK

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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RPT-TIME	INCIDENT LOCATION CITY, ST., (CNTY)	MATERIAL (quantity)	Source Cause Waterway affected
09 289 RR 1105 09 /28 /89	WILLIAMS PIPELINE	LEADED GASOLINE (2338 gations)	FIXED FACILITY RETENTION POND
NATURE OF INC.	ON : CONFINED IN RETENTION PO	ND, VACUME TRUCKS ON THE WAY TO CLEAN UP SPILL.	RETERITOR PORD
071300ES1624	GREAT PLAINS PIPELINE CST	OIL, FUEL: NO. 1-D (3500 gailons)	FIXED FACILITY
1710 HRS. NATURE OF INC RESPONSE ACTI	IOMA FALLS, IA (HARDIN) IDENT : CN : RECOVERING SPILL		LAKD
071 99 RK 0747 07/19/89 747 HRS. N <u>a</u> ture of Inc	AMOCO DIL CO. THREE MILES WEST OFF TOWN ON O OTTURNA, IA (WAPELLO) IDENT : SPILLED INTO DIKED AREA		FIXED FACILITY EQUIPMENT FAILURE GROUNDWATER
		OIL: DIESEL (706 barrets)	FIXED FACILITY
05, 49/90 506 HRS. NATURE OF INC RESPONSE ACTI	4300 41ST ST SIGUOX CITY, IA (MCCOBURY) DENT: ON : OIL IS IN CONTAINMENT AR	REA	SOIL
09289RK 1043 09/28/89 1043 HRS. NATURE OF INC	VILLIAMS PIPELINE 5360 ELDORA ROAD VATERLOO, IA (BLACKHAUK) IDENT : SEPARATOR SYSTEM - METER ON : A VACULM TRUCK IS PUMPIN	LEADED GASOLINE (2338 gallons)	FIXED FACILITY EQUIPMENT FAILURE WATER RETENTION POND

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

MATERIAL (quantity) SOURCE ASE NUMBER RESPONSIBLE PARTY CAURE T-DATE INCIDENT LOCATION WATERWAY AFFECTED TTIME CITY, ST., (CNTY) PETROLEUM PRODUCT (2697 gallons) HIGHLAY J22290LP1015 SIERP OIL COMPANY HUY 34 02/22/89 O HRS. GLENWOOD, IA (MILLS) NATURE OF INCIDENT : A PASSENGER VAN CROSSING MUY 34 WAS NIT BROADSIDE BY A SIERP OIL TRANSPORT. RESPONSE ACTION : STATE PUBLIC SAFETY CONTAIN PRODUCT & PREVENT FURTHER RELEASE OF PRODUCT. 01040JW 0327 (PACK?) TRANSPORT GASOLINE (8700 gations) HIGHLAY TRANSPORTATION ACCIDENT 01/04/90 327 HRS. GREELEY, IA (DELAWARE) NATURE OF INCIDENT : OVERTURNED CAR. RESPONSE ACTION : DOUG WILL RESPOND WHEN LIGHT & TRAVEL PERMITS. GASOLINE (7000 gations) H I GHLIAY 09279AT 1210 WAYNE TRANSPORT, INC. HUY 14 & C-13 INTERSECTION TRANSPORTATION ACCIDENT 09/27/89 1210 HRS. GREENE, IA (BUTLER) MONE NATURE OF INCIDENT : TRANSPORT AND CAR COLLIDED. PESPONSE ACTION : CONTAIN PRODUCT. PREVENT ENTRY OF PRODUCT TO A CONDUIT. CONTROL IGNITION. GASOLINE (9000 gallons) 3390JA0410 BORK TRANSPORT HIGHLAY HILE HARKER 175.5, WEST BOUND 1-80 TRANSPORTATION ACTIVE 09/08/89 KELLOG. IA (JASPER) SURFACE WATER 410 HRS. NATURE OF INCIDENT : SINGLE VEHICLE ACCIDENT, TRUCK OVERTURNED ON ITS TOP. POSSIBLY 9000 GAL. RESPONSE ACTION : NO FIRE YET. STAY UPWIND OF FUNES. SAND TO DIKE DOWNGRADE FROM TRUCK. GASOLINE (4700 gailons) 09089K 1627 BORK TRANSPORT INC HIGHLAY 3 MILES EAST OF KELLOG, IOWA 09/08/89 NORTH SKUMK RIVER KELLOG, IA (JASPER) 1708 HRS. NATURE OF INCIDENT : RESPONSE ACTION : CO OFF LOADED 4,700 GALLONS, DIKE WAS BUILT AROUND SPILL BUT AT 1400 - 2 DIKES

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

SCURCE MATERIAL (quantity) CASE NUMBER RESPONSIBLE PARTY CAUSE INCIDENT LOCATION RPT-DATE WATERWAY AFFECTED CITY, ST., (CXTY) PPT-TIME HIGHHAY OIL, FUEL: NO. 2-D (2500 gailons) 03133TJC1040 UNIVERSAL TRANSPORT OTHER 03/13/93 UNKNOWN CURTIS, NE (FRONTIER) 1059 HRS. NATURE OF INCIDENT : TANK TRAILER / VANDALS OPENED VALVE ON TRAILER OVERNIGHT. RESPONSE ACTION : DIRECT A DITCH TO PREVENT RUNOFF TO STREAM. CONTAINED SPILL & COLLECTED WITH VAC TRUCKS. OIL: DIESEL (2000 gailons) HIGHMAY FIXED FACILITY 01182K 1037 FARMERS COOP TRANSPORTATION ACCIDENT HIGHWAY 30/ NORTH BEND 01/18/92 15 NILES WEST OF FREMONT 1119 HRS. FREEMONT, NE (DODGE) NATURE OF INCIDENT : FUEL TRANSPORT TRUCK / OVERFLOW OUT OF TOP OF TANK. RESPONSE ACTION : PUMPING UP SPILLED PRODUCT / VYN SAFETY CO. TO NANDLE CLEANUP. OIL: DIESEL (1400 gailons) HIGHLAY RAILWAY 05223K 1711 UNION PACIFIC RAILROAD MILE POST 152.1 N PLAT SUBDIVISION DOT TRANSPORTATION ACCIDENT 05/22/93 HRS. CROSSING 815883F MITCHELL, NE (SCOTTS BLUFF) OF INCIDENT : DIESEL TANK ON ENGINE / CROSSING ACCIDENT. HALL UNSE ACTION : FRONT END LOADER REMOVING CONTAMINATED SOIL AND PLACING ON PLASTIC. WILL TRANSPORT SOIL TO PROPER REMEDIATION LOCATION. GASOLINE: AUTOMOTIVE 4.23G PB/G (8800 gailons) HIGHNAY 04030JU 2105 AMSBERRY INC HWY 83 BETWEEN M.P. 135 AND 136 04/03/90 TOP SOIL AND ASPHALT NORTH PLATTE, NE (THOMAS) NATURE OF INCIDENT : TRANSPORT TRUCK COLLISION WITH A COM. ROAD RESPONSE ACTION : TANK WAS REMOVED / CLEANUP CREW IS EN ROUTE DIESEL (2900 gations) HICHLAY 10039GH 1204 INTERSTATE 80 AND 60TH 10/03/89 LITTLE PAPIO RIVER CHANA, NE (DOUGLAS) 1259 HRS. NATURE OF INCIDENT : RESPONSE ACTION : FIRE DEPT IS ON SCENE

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

PT-TIME	RESPONSIBLE PARTY INCIDENT LOCATION CITY, ST., (CNTY)	MATERIAL (quantity)	SCURCE CAUSE WATERWAY AFFECTED
7/30/90 1731 HRS. MATURE OF INC		OIL, FUEL: NO. 2 (71 barrets) ED FROM CONTAINMENT AREA	PIPELINE CONTAINMENT AREA
06/03/88 0 HRS. NATURE OF INC RESPONSE ACTI	MUSCATINE POWER & WATER 3205 CEDAR STREET MUSCATINE, IA (MUSCATINE) CIDENT : UNDERGROUND LEAK. CON : LINE WAS EMPTIED AND UNCO	FUEL OIL #2 (8000 gations) INVENTORY RECOS INDICATE A LOSS. A LEAK IN UNDGRD VERED. HELIUM INJECTED. TRENCHER & BACKHOE USED.	PIPELINE NOME
05203MTR1030 05/20/93 1053 HRS. MATURE OF INC FSPONSE ACT	SOO LINE RAILROAD CO VEAR 1300 N WILDWOOD DR OTTUMMA, IA (MAPELLO) CIDENT : PIPELINE DAMAGED DURING DO ION : CONTRACTOR ON SITE INVEST SOIL AND COLLECT ANY STAN		PIPELINE OPERATIONAL ERROR
J3290M 1839 03/29/90 1904 HRS. NATURE OF IN RESPONSE ACT	WILLIAMS PIPELINE CO CO. FACILITY 4300 41ST ST SIGUX CITY, IA (WOODBURY) CIDENT: 10" TRANSHISSION LINE. ION: LEAK ISOLATED AND REPAIRE		
11080H94 1410 11/08/90 1500 HRS.	WAREHOWSER PAPER CO. 800 W. PARKER STREET WATERLOO, IA (BLACK HAWK) CIDENT: 3/4" RETURN LINE CORRODED ION: CONTRACTOR TO CLEANUP.	OIL, FUEL: NO. 2 (12000 gallons)	PIPELINE EQUIPMENT FAILURE

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

CASE NUMBER RESPONSIBLE PARTY MATERIAL (quantity) SCHOOL CAURE RPT-DATE INCIDENT LOCATION WATERWAY AFFECTED RPT-TIME CITY, ST., (CMTY) 02010UR 1055 BURLINGTON NORTHERN R/R
02/01/90 ALLIANCE RAILYARD 500 V. KANSAS ST.
1132 HRS. ALLIANCE, NE (BOX SUTTE) OIL. FUEL: NO. 2 (65795 gailons) ABOVE CROUND TANK EQUIPMENT FAILURE C2(15/D) NATURE OF INCIDENT : ABOVE GROUND TANK RESPONSE ACTION : EXCAVATING SOIL. FREESTANDING LIQUID BEING PUMPED UP. GASOLINE (2000 gailons) ABOVE GROUND TANK 02178NEW1530 ROM'S SINCLAIR 02/17/88 SECOND & LINCOLN HERSHEY, HE (LINCOLN) A MPS. NATURE OF INCIDENT : ABOVEGROUND TANK WHICH SUPPLIES FUEL TO UST'S DEVELOPED A HOLE IN BASE. RESPONSE ACTION : 03248M1157 BENSEN 66 SERVICE INC. OILS: DIESEL (5000 cations) ABOVE GROUND TANK UNICHOLDE 03/24/88 ALAN OIL CO CHAKA. HE (DOUGLAS) 1157 HRS. NATURE OF INCIDENT : CONTENTS OF SOOD ABOVE GRND STORAGE TANK SPILLED TO DIKED AREA PESPONSE ACTION : RP NAS CONTRACTOR ON-SITE, NO ACTION AS YET, HAS SOAKED INTO GRND, BY CREEK. ^{TA}_____ 1.JW 2050 KOCK HATERIALS COMPANY ASPHALT EMULSION (11000 gallons) ABOVE GROUND TANK J6/91 1404 GRACE ST. ECHIPMENT FAILURE STORM SELER (100 GAL) 2050 HRS. OMANA, NE (DOUGLAS) NATURE OF INCIDENT : ABOVE GROUND STORAGE TANK REPUTURED FLOWLINE FROM THE TANK. RESPONSE ACTION : MATE SPILLED INTO CONTAINMENT DIKE, -100 GAL MENT TO SUMP THE STORM SEMER. OIL, FUEL: NO. 2-D (750 gallons) ABOVE GROUND TANK 06272JU 0850 CHEIFTAN VAN LINES 06/27/92 7201 MAIN STREET 917 HRS. RALSTON, NE (DOUGLAS) TRANSPORTATION ACCIDI NATURE OF INCIDENT : ABOVE GROUND FUEL TANK / HIT BY DRIVER. RESPONSE ACTION : RECOVERED WITH SORBENTS AND WILL THEN EXCAVATE CONTAMINATED SOIL.

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EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

>>>>>> THE FOLLOWING FIRST NOTIFICATION REPORTS REFLECT DATA COMPILED BY THE EPA PRIOR TO INVESTIGATION. <

SCHROE MATERIAL (quantity) CASE NUMBER RESPONSIBLE PARTY CAURE INCIDENT LOCATION PPT-DATE WATERWAY AFFECTED CITY, ST., (CATY) RPT-TIME UNDERGROUND TANK GASOLINE (900 gallons) 0209808H0915 HID STATE COOP FARMERS COOP 02/09/88 NONE ANSELMO. NE (CLISTER) Q MRS. URE OF INCIDENT : 3000 GAL. TANK FUELED BEFORE WEEKEND, CONTENTS LOST OVER WEEKEND. PONSE ACTION : UNLEADED GASOLINE (1100 gallons) IMPERCECIMO TANK 01088SMS1540 WHITE WAY SERVICE CENTER AVE. 1 EASTON ST. 01/08/88 ASHTON, NE (SHERMAN) O MRS. NATURE OF INCIDENT : TANK LEAKING AT ABOUT 40 GAL/MIN. FROM 2000-GAL TANK. HUMICIPAL WELLS RESPONSE ACTION : UNLEADED GASOLINE (4500 gailons) 08278K1649 SINCLAIR DIL 2009 W. 2 STREET 08/27/88 MOME GRAND ISLAND, NE (HALL) O MRS. NATURE OF INCIDENT : EQUIPMENT FAILURE. LOSS OF 4500 GALLONS. HOW CHECKING TANK. FERONSE ACTION : EPA CALLED NOEC. . UZJONEW1430 PANHANDLE COOP UNDERGROUND TANK CASOLINE (900 gailons) 1145 FOURTEENTH STREET. NOME MITCHELL, NE (SCOTTSBLUFF) O MRS. NATURE OF INCIDENT : INVENTORY DISCREPANCY IN FILLED TANK OF PRODUCT. LOST 33 GAL. OVER 12 HRS RESPONSE ACTION UNDERGROUND TANK #6 DIESEL (1520 pounds) JS010TJC1115 LUMD-ROSS CONTRACTORS OTHER 05/01/90 1307 LEAVENWORTH GROUNDWATER CHAHA, NE (DOUGLAS) NATURE OF INCIDENT : REMOVING UST WHEN A HOLE WAS ACCIDENTALLY PUNCHED IN THE BOTTOM OF TANK. RESPONSE ACTION : STATE IS WORKING WITH COMPANY ON CLEANUP. UNDERGROUND TANK DIESEL FUEL (1000 gallons) 10078CAB0915 TRANS CON LINE 5900 N 16TH ST 10/07/88 NOME CHANA, NE (DOUGLAS) NATURE OF INCIDENT : TRANSFER LINE FROM UNDERGROUND TANK FAILURE RESPONSE ACTION : TEST WELLS FROM PREVIOUS MONITORING PROGRAM ALL BEING MONITORED

EMERGENCY PLANNING AND RESPONSE BRANCH INCIDENT NOTIFICATION REPORT

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STURCE MATERIAL (quantity) CASE NUMBER RESPONSIBLE PARTY CAUSE RPT-DATE INCIDENT LOCATION WATERWAY AFFECTED CITY, ST., (CHTY) ********* DIESEL FUEL (3500 gailons) RAILWAY BURLINGTON NORTHERN R.R. 02249110950 500 NORTH KANSAS ST. ALLIANCE, NE (BOX BUTTE) 02/24/89 MONE O MRS. NATURE OF INCIDENT : TANK CAR BN875050 LEAKING-TWO BOLTS BROKEN SEAL. RESPONSE ACTION : OFF LOAD TANK CAR. COLLECTED PRODUCT VIA DRAIN. 051820ES2034 UNION PACIFIC RAILROAD NAPHTHA: COAL TAR (270 tons) PATLUAY MILE POST 244
GOTHENBURG, NE (DAMSON) EQUIPMENT FAILURE 05/18/92 2118 HRS. NATURE OF INCIDENT : FAILED JOURNAL CAUSED DERAILMENT OF 10 CARS. RESPONSE ACTION : HAZMAT TEAM ENROUTE. DIESEL FUEL (4000 gailons) RATLWAY 08099WR 1025 BURLINGTON R.R. PLATTE RIVER NEAR GUERNSEY, NEB. TRANSPORTATION ACCIDENT 08/09/89 PLATTE RIVER 1025 HRS. GURNSEY, NE () NATURE OF INCIDENT : LOCOMOTIVE FIRE - TANK RESPONSE ACTION : SURLINGTON R.R. IS RESPONDING. 1803 UNION PACIFIC RAILROAD OIL, FUEL: NO. 2-D (10000 gattons) RAILWAY G. .93 2900 WEST FRONT ST 1921 HRS. NORTH PLATT, HE (LINCOLN) EQUIPMENT FAILURE MATURE OF INCIDENT : PIPE BETWEEN 2 TANKS BROKE. RESPONSE ACTION : CREATED EARTHEN DAM, CREW EN ROUTE TO PICK UP SPILL. NOEC NOTIFIED AT 1810 HOURS. 121500ES0750 UNION PACIFIC RAILROAD OIL: DIESEL (5000 gallons) PAILWAY RAIL YARD MP MX 284 12/15/90 NORTH PLATTE, NE (LINCOLN) 843 HRS. NATURE OF INCIDENT : RESPONSE ACTION : COMPANY CREWS HAVE VAC TRUCK ON SCENE. OILS: DIESEL (5000 gallons) 05268R0915 CNEW RAILROAD 05/26/88 4.8 RR MI EAST OF VALENTINE, NE TRANSPORTATION ACCIDENT NICERABRA RIVER VALENTINE, NE (CHERRY) 915 HRS. NATURE OF INCIDENT : TRAIN HIT WASHOUT, OVERTURNED, RUPTURED FUEL CELLS. RESPONSE ACTION :

ANNEX I

USCG/EPA MOU

Enclosure (1) to Annex 00 to Region VII Regional Contingency Plan

MEMORANDUM OF UNDERSTANDING BETWEEN THE SECOND COAST GUARD DISTRICT AND THE ENVIRONMENTAL PROTECTION AGENCY, REGION VII

MEMORANDUM OF UNDERSTANDING BETWEEN

THE U. S. ENVIRONMENTAL PROTECTION AGENCY REGION VII. KANSAS CITY, KS

THE U. S. COAST GUARD

SECOND COAST GUARD DISTRICT, ST. LOUIS, MO CONCERNING

FEDERAL ON SCENE COORDINATOR RESPONSIBILITIES IN THE INLAND ZONE WITHIN THE SECOND COAST GUARD DISTRICT

<u>PURPOSE</u>: The purpose of this document is to delineate the role and responsibilities of U. S. Coast Guard personnel relative to pollution response activities on the Inland River System. Specifically, this document:

- 1. Eliminates previously designated "specified ports and harbors" on the Inland Rivers within the Second Coast Guard District, thereby redesignating the entiraty of the Second Coast Guard District as Inland Zone wherein the U. S. Environmental Protection Agency is the predesignated Federal On Scene Coordinator agency.
- 2. Confirms the Second Coast Guard District's commitment to meeting the spirit as well as the letter of the National Contingency Plan and assisting the U. S. Environmental Protection Agency predesignated Federal On Scene Coordinators to the fullest extent possible in all pollution response activities.
- 3. Identifies operational critaria under which the U. S. Coast Guard will assist the U. S. Environmental Protection Agency with its On Scane Coordinator (OSC) responsibilities by acting as the lead agency and providing personnel to fill the OSC role for actual or threatened pollution incidents involving commercial vessels or marine transportation-related facilities.

BACKGROUND: Under a previous agreement, the U. S. Environmental Protection Agency, Region VII, and the Second Coast Guard District had identified certain geographic areas on the Inland River System for which the U. S. Coast Guard would, under certain circumstances, provide a "predesignated" Federal On Scene Coordinator. In general, in the specified port and harbor areas, the U. S. Coast Guard Captain of the Port was predesignated as the OSC for oil and hazardous substance discharges resulting from vessel casualties or vessel-related transfer operations. The U. S. Environmental Protection Agency retained the OSC responsibilities for all other pollution incidents within the specified ports and harbors and for all incidents outside those limited geographic areas.

The Oil Follution Act of 1990 amended the Federal Water Pollution Control Act and imposed new pollution response preparedness and removal requirements on industry and government, including the predesignated Federal On Scene Coordinator. The requirements of the Oil Pollution Act prompted a complete review of agency responsibilities pursuant to the Act itself and the National Contingency Plan. That review indicated that the division of agency On Scene Coordinator responsibilities along a combination of geographic and functional lines did not provide the hest mechanism for planning and coordination of current National Response System activities.

This document redefines agency responsibilities along wholly functional lines that are consistent with traditional agency authorities. It also provides for effective integration of preparedness and removal activities in a manner consistent with the requirements of the National Contingency Plan.

AGREEMENT:

The entiraty of the Second Coast Guard District, including the Inland River System within the Second District, is included in the definition of Inland Zone wherein the U.S. Environmental. Protection Agency (USEFA) is the predesignated Federal On Scene Coordinator agency. The previous agreement designating specified ports and harbors as portions of the Coastal Zone is cancelled.

The U. S. Coast Guard (USCG), through the cognizant Captain of the Port (COTP), will assist the predesignated USEPA On Scane Coordinator (OSC) to the fullest extent possible consistent with agency responsibilities and authorities. Specifically, for all pollution incidents where there is an actual discharge or release, or a substantial threat of such a discharge or release, of a pollutant into or on the navigable waters of the United States or the adjacent riverbank, the U. S. Coast Guard will respond as follows:

- 1. If the incident involves a commercial vessel, atvessel transfer operation, or a marine transportation related facility, the USCG COTP will provide the OSC and carry out all of the OSC responsibilities, including the decision to direct any necessary removal activity or access the Oil Spill Liability Trust Fund. In such cases, the predesignated USEPA OSC will be advised of any response actions that the COTP takes via initial telephone notification and periodic pollution reports.
- 2. If the incident involves a source or threat other than a commercial vessel, vessel transfer operation, or maxima transportation-related facility, or if the incident involves an unknown source of pollution:

- a. The USCG COTF will carry out the USCG's agency responsibilities under the NCP, the Régional Contingency Plan, and when developed. the Area Contingency Plans, and will assist the USEFA OSC to the fullest extent possible.
- b. Upon request by the predesignated USEFA OSC, the USCG COTP will act on behalf of the USEFA in any actions where the USCG personnel are both qualified and physically capable of responding. The type and extent of the USCG's actions in each case will be determined by consultation between the USEFA OSC and the USCG COTF.
- c. If specifically requested by the predesignated USEFA OSC, the USCG COTP may assume the functional OSC rule and carry out all of the OSC responsibilities for a particular incident. The final decision on acceptance of the functional OSC role will rest with the COTP on an incident-specific basis.
- d. If the USCG is the first agency notified of such an incident, the USCG will notify the predesignated USEPA OSC and assist in assessing the situation and the need for a Federal response.
- e. If a USCG representative is the first Federal official arriving on scene at such an incident, the USCG will notify the predesignated USEPA OSC and carry out the duties detailed in the NCP pending arrival of the predesignated OSC.
- 3. This agreement will be incorporated into the agency responsibilities section of the Regional Contingency Flam.

TERM OF AGREEMENT: This agreement will be subject to review and amendment coincident with each periodic review of the Regional Contingency Plan and at any other time at the request of either of the parties. It will remain in effect until modified or terminated by subsequent agreement.

Mr. William W. Rice
Acting Regional Administrator
U. S. Environmental Protection
Agency, Region VII
25 Functon Road
Kansas City, KS 66115

Date: (1071/ 3. 1993

Date: March 30, 1993

N. T. Saunders

Commander

Rear Admiral. USCG

1222 Spruce Street

Second Coast Guard District

St. Louis. MO 63103-2832

ANNEX II

DISPOSAL REQUIREMENTS

UNDER DEVELOPMENT

ANNEX III

UNIFIED COMMAND SYSTEM

Unified Command System (UCS)

PROTOCOL

A UNIFIED COMMAND SYSTEM (UCS) SHALL BE ESTABLISHED AT ALL INCIDENTS INVOLVING HAZARDOUS SUBSTANCES BY SENIOR ON-SCENE OFFICIAL OF THE FIRST RESPONSE ORGANIZATION TO ARRIVE AN INCIDENT.

The UCS should be based on the organization, terminology and procedures recommended by the National Fire Academy and applied in abroad sense to include all hazard control and mitigation response organizations including responsible parties, private responders and local, state and federal agencies. All such entities participating in a response are required by federal law to implement an intra-organization ICS and integrate it with the overall UCS.

The UCS established will have as the Incident Commander (IC) the most senior on-scene official with the expertise, capability, authority, and determination to be the commander. The IC can be from a local unit of government or from a county, state, or federal agency. This protocol recognizes that typically, but not necessarily, the IC will change as the incident progresses from being primarily a public safety problem, with the local fire chief as IC, to an environmental incident with a state or federal person as the IC. The following procedures specify a determinate yet feasible means of establishing the role of federal and state responders in a UCS.

I. SINGLE JURISDICTIONAL ARE AFFECTED

When the incident involves and affects only a single local geographical jurisdiction, the organizational structure of the UCS or Incident Command System will be determined by the established local contingency plan. This may involve single or multiple agency involvement. In all situations one person shall act as an Incident Commander in sole charge, or function as an Operations Chief to implement the action plan of a Unified Command.

In-such instances, responding state and federal officials, who might otherwise be considered the senior competent emergency response official at the site, shall either:

1. Identify themselves to the Incident Commander and integrate themselves into the established ICS per the Incident Commander's direction, usually as a technical specialist to an

operations group supervisor or as an operations group supervisor: or

- 2. Join an existing Unified Command or request the Incident Commander to establish a Unified Command: or
- 3. Assume the Incident Command role when required by federal or state law, or when an existing Incident Commander agrees to such a transition, or when no ICS or UCS has been established.

The ICS transfer of command or initial assumption of command protocols shall be used.

II. MULTIPLE JURISDICTIONAL AREAS AFFECTED

When the incident involves and affects multiple local geographical jurisdictions or areas not covered by local emergency response organizations, the state or federal competent senior official at the site shall either:

- 1. Preferably join an existing Incident command or Unified Command as in I above; or
- 2. Establish a Unified Command for an encompassing ICS if none exists; or
- 3. Assume Incident Command and establish a UCS incorporating existing local efforts as operations section branches or otherwise as appropriate.

III. LOCAL, STATE, FEDERAL INTERACTION

When not specifically prescribed, a Unified Command Consisting of local, state, and federal senior competent emergency response officials at the site shall be the preferred approach to integrating several levels of government into a United Command System. Where state law specifies incident command assignments, it shall take precedence over this protocol with respect to those state and local organizations to which it applies. Federal jurisdiction specified in CERCLA, OPA or the RCP shall take precedence over this protocol.

Breadth of responsibility will be considered to increase from most local to state to federal. However, this protocol encourages the establishment of the UCS at the most local level practicable to assure the earliest implementation of a unified response strategy.

UNIFIED COMMAND SYSTEM

UCS is used to answer several questions frequently arising in an emergency situation:

1. Who is in charge?

- 2. Whose codes or terminology do we use to communicate?
- 3. How do I prevent individual overload and still

utilize all available resources effectively?

- 4. How do I assure maximum personnel safety?
- 5. How can I effectively blend more than one department or agency at an incident?
- 6. How can I effectively utilize and/or follow NCP, RCP, ACP, and any local contingency plans?

As the initial "SIZE-UP" indicates the need for more personnel and equipment, the UCS allows the IC to delegate such duties as safety, operations, planning, resources, staging and press information to others qualified personnel. The people handle the assigned areas and report results and findings to the IC. The IC will make all major decisions and maintain overall responsibility for the incident: BUT by assigning these areas to others as the incident expands, the IC avoids overloading personnel to the point they cannot perform assigned duties effectively.

INCIDENT COMMANDER

As the level of response increases, so does the difficulty of effectively managing the incident. The person charged with overall control of the incident is the "incident commander". Unless otherwise directed by policy the incident commander is the senior responding officer, and it shall be this officer's responsibility to establish the Incident Command System. As the scope of an incident increases, then the incident commander ultimately is the person with the greatest jurisdictional responsibility as defined by law. The incident commander has several specific responsibilities at the scene of a hazardous materials incident, some of which are as follows:

- Assume control of all emergency responders and personnel at the site.
- 2. Control and co-ordinate all communications at the site.
- Identify to the extent possible all of the hazardous substances and conditions present.
- 4. Limit the number of emergency response personnel at the site to those "actively" performing "authorized" emergency operations.

- 5. Ensure that personal protective equipment utilized will be appropriate for the materials and conditions involved; and establish the levels of protection to be used at the various areas of the site.
- 6. Ensure that operations being performed in hazardous areas are done utilizing the "buddy system" and that backup personnel are immediately available in the same level of protection for rescue or assistance.
- 7. Ensure that emergency medical personnel with transport capability are on-site AND that they have been briefed about the specific hazards and decontamination procedures for personnel and equipment.
- 8. Ensure that the medical facility which will receive any casualties is briefed about the specific hazards on-site.
- 9. Establish and maintain an easily recognized command post in a safe area on the site.
- 10. Ensure that the minimum number of entries are made into hazardous areas AND that each entry has a "clear" and "necessary" purpose.
- 11. Be knowledgeable of available resources and mobilize all of the necessary resources to successfully conclude the incident.
- 12. Effectively blend and efficiently utilize the diverse resources available.
- 13. Ensure hazard zones are well marked and entry is controlled.
- 14. Appoint a site safety officer (if not designated by policy).
- 15. Shall implement appropriate decontamination procedures after all emergency operations are terminated.

The incident commander of a large incident cannot personally control every aspect of the incident AND be an effective emergency manager. To accomplish this goal U.C.S. establishes a chain of command and reporting which limits the number of personnel reporting directly to the I.C. (These positions are those of the Operations Commander, Logistics Commander, Plans Commander, and the Command Staff.) With the information channels established, information flows to the I.C. who can then make the correct

tactical decisions. One other person has direct communications with the I.C., and that person is the site safety officer.

OSHA 29 CFR 1910.120 requires the following for incident commanders at hazardous materials incidents (P.9329). "Incident commanders, who will assume control of the incident scene beyond the first responder awareness level, shall receive at least 24 hours of training equal to the first responder operations level and in addition have competency in the following areas and the employer shall so certify:

- (A) Know and be able to implement the employer's incident command system.
- (B) Know how to implement the employer's emergency response plan.
- (C) Know and understand the hazards and risks associated with employees working in chemical protective clothing.
- (D) Know how to implement the local emergency response plan.
- (E) Know of the state emergency response plan and of the Federal Regional Response Team.
- (F) Know and understand the importance of decontamination procedures.

SITE SAFETY OFFICER

O.S.H.A. requires that the site safety officer be knowledgeable in firefighting OR rescue AND hazardous substances handling procedures. The position of the site safety officer is required to assure the safest possible working environment for on-site personnel. The site safety officer must have a thorough knowledge of personal protective equipment, decontamination procedures, and site safety procedures. The person in this position has the following responsibilities at the site of a hazardous materials incident:

- 1. Identify and evaluate the hazards on-site AND provide direction to the I.C. with respect to the safety of operations for the emergency at hand.
- 2. Establishes and clearly marks hazardous zones on-site.
- 3. Shall specify the level of protection to be used in the established zones on-site.

- 4. Shall establish the decontamination line prior to entry into hazardous zones.
- 5. Assures that the minimum numbers of entries are made into hazardous areas, that each entry has a "necessary" purpose, and that the minimum time necessary to complete the purpose is spent downrange.
- 6. Gives final approval for "each" person entering a hazardous area based on the above criteria.
- 7. Will keep detailed records of personnel entering hazardous areas which include:
 - Name
 - Level of protection
 - Time entering/ time leaving hazardous area
 - vital signs before and after entry
 - Tasks performed
 - Any exposure information
- Research hazards and symptoms of exposure of the materials involved.
- 9. Immediately alter or suspend any operation on-site when unsafe actions or conditions exist AND immediately notify the I.C. of actions taken and the reasons.
- 10. Will maintain direct communications with the I.C. at all times.
- 11. Establish EMS and hospital support.
- 12. Monitor boundaries around hazardous zones for any changes in conditions.
- 13. Deny entry into any hazardous zone to anyone not authorized by the I.C.
- 14. Inspects (or causes to be inspected) all personnel entering hazardous areas to ensure personal protective equipment is "properly" donned.
- 15. Complete a written site safety plan as soon as possible.

The site safety officer is one of the staff officers who might not be at the command post during the incident, but must remain in contact with the I.C. and remain knowledgeable of all operations in

hazardous areas. As the scope of the incident increases, the site safety officer may need personnel assigned to safety operations to assure all of the responsibilities are met at all hazardous locations on-site. These designated personnel will report directly to the site safety officer who will report directly to the I.C. The site safety officer's position is imperative if an incident is to be brought to a successful conclusion.

PLANNING

Another facet of the U.C.S. is the planning section. The head of the planning section reports directly to I.C. The planning section is responsible for maintaining a current situation status report, a current list of resources and their availability, and maintaining contact with technical advisors. By maintaining this information "plans" provides a very important function, and that is "documentation " of the incident on a real time basis. "Plans" provides recommendations based on all of the information available to the I.C. concerning tactics for handling the incident.

LOGISTICS

The "Logistics" section is responsible for maintaining personnel and equipment sufficient to keep the site functioning. Logistics oversees staging of personnel and equipment, supplies, and communications. Logistics also provides "base area" functions for personnel not on-site or in staging areas (food, shelter, rest area, etc). Logistics provides current information to the I.C. and Plans about these functions in reference to availability and capability of resources on-site.

OPERATIONS

"Operations" is the group which actually performs the designated tasks. The person in charge of operations reports directly to the I.C. concerning the status of task completion on-site. Before operations can commit to a task, the commander can review information from Plans and Logistics to assure the resources needed are available to properly perform the task. To prevent overload, personnel reporting to any one person should be limited to a reasonable number, or span of control. If the number of task groups exceeds this number, the operations area can then be divided into sectors with each sector containing a number of task units. Each sector officer would then report to the operations commander.

The Unified Command System is a blueprint for an effective emergency management structure. Personnel who will be expected to function within this system should be trained on roles and

responsibilities of the U.C.S. components. The final stage of U.C.S. development is drilling (practicing) with all of the agencies who would respond to a hazardous materials incident. To properly identify persons or agencies who would respond to a hazardous materials situation, the agency responsible for overseeing these incidents should conduct an ongoing hazard analysis program and preplan the resources necessary to handle the anticipated problems.

SITE CONTROL

Responders to a hazardous materials incident are charged with five basic areas of responsibility. All of these areas are dependent on the others, and they all require constant updating by the responders to assure that all of the actions taken and all protective equipment used are correct for the current situation. These five areas are:

- 1. DETECT THE PRESENCE Identify the materials involved and determine the hazards they present.
- 2. ESTIMATE the likely risks these materials pose to the public and the environment.
- 3. CONTROL What methods can be used to reduce the impact of the incident.
- 4. INFORMATION Verify existing information and always be alert for new information at the site.
- 5. SAFETY Protect all responders from harm.

The incident commander and the site safety officer are responsible for the activation and continuation of these five important tasks. These responsibilities begin with the first response and continue until the site is cleared.

The incident commander and the site safety officer are both charged with something called "site control". Site control is composed of two basic parts:

- 1. Clearly establishing and marking hazardous areas.
- 2. Rigidly controlling entry and egress from these areas.

Site control is the mechanism which attempts to confine contamination to the areas which were initially contaminated. To

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prevent entry by unauthorized personnel and vehicles, to maintain safe control over operations personnel, and to reduce the spreading of a hazardous substance beyond the area of initial contamination, a hazardous materials incident is usually divided into three distinct zones. These zones are:

HOT ZONE - Area of actual hazard or contamination. Also known as the exclusion zone.

WARM ZONE - Buffer area around the hot zone. This zone contains the contamination reduction corridor.

COLD ZONE - Area around the warm zone which doesn't require any special protection. Also known as the support zone, safe zone, or clear area.

As with the size of the U.C.S. structure, the nature of the incident determines the number of zones and the respective size of the zones.

The first zone to be established is the HOT ZONE. The hot zone contains the hazardous substances, any runoff, and dangerous levels of any toxic or flammable vapor produced. The original size of the exclusion zone is determined by the first arriving emergency responder and is usually the evacuation distance obtained from the D.O.T. Emergency Response Guidebook. As more "site specific" information becomes available, the incident commander will decide whether the "hot zone" is sufficient, should be enlarged, or can be reduced. The size of this exclusion area is determined by many factors, most of which are dynamic.

The most obvious factor determining the size and shape of the hot zone is the hazardous substance(s) involved. A lump of solid material which will safely sit until recovered will require a small exclusion zone, whereas a volatile or fuming liquid would require an exclusion area larger than the area actually covered by the substance. The amount of the substance, physical properties of the substance, and chemical properties of the substance will be factors in determining the size of the exclusion zone. The number, size, shape, and condition of the hazardous substances containers will also affect the exclusion boundaries.

Weather conditions will definitely be a factor in establishing a hot zone. If a hazardous substance is (or could become) airborne, then wind must be considered. Humidity can help control a material or make it reactive. Precipitation can cause severe difficulty in attempting to contain a material. Temperature can make a material reasonably stable or highly volatile. Another thing to remember

about the weather is that it will probably change. <u>Current weather</u> conditions <u>AND</u> the weather forecast are important planning elements!

Topography may dictate an irregularly shaped zone by providing natural barriers or channels to hazardous substance movement.

The exclusion zone is the result of several factors. Many of these factors are dynamic, or subject to change. Once the hot zone has been established, then the boundaries are subject to constant re-evaluation. Since the hot zone is the center of the incident site, then a change in hot zone dimensions can affect the other zone dimensions. Be alert and continue to monitor!

The hot zone begins to take shape as soon as the initial responders detect or suspect the presence of a hazardous substance. Once this hot zone begins to take shape, it becomes important to clearly mark and identify this area to all responders. This zone is now restricted to all personnel unless entry is specifically authorized by the incident commander and the site safety officer. If a small quantity of stable material involved, then traffic cones placed at a safe distance with a firefighter to control entry may be Larger areas may require barricades on roadways, sufficient. brightly colored tape barriers, warning signs, use of natural barriers, or combination of these to identify the area. It is important to isolate the hot zone as soon as possible to protect the public, other responders, and to keep these people from unnecessarily expanding the incident. Vehicles and people traveling through a hot zone create not only an immediate danger to themselves, but spread the incident from the area in which you are trying to contain it. Remember, as the perimeter of the hot zone grows, it will become more difficult to clearly mark and control.

Now that the hot zone is established, a point is established on the upwind side for an entry/exit portal for the hot zone. All entries and exits are made through this portal. The site safety officer, based on the substance and conditions present, will specify a level of protection to be used by all personnel entering the hot zone (Figure 9). The site safety officer must constantly evaluate current site information and may change the required level of protection to meet current site conditions. The site safety officer, or his designate, will provide the security at this portal and restrict access to all personnel who do not meet the following criteria:

- 1. Are in proper protective clothing.
- Are utilizing the "buddy system".

- 3. Are specifically authorized entry to perform a specific task.
- Are medically fit to perform those tasks.
- 5. Have the prescribed monitoring and communications equipment.
- 6. Have the tools and equipment necessary to perform the task.
- 7. Are marked for individual identification.

Prior to releasing any personnel downrange, the site safety officer:

- 1. Ensures the decontamination line is in place, staffed, and ready.
- 2. Ensures that backup personnel are ready in the same level of protection as the entry team.
- Ensures that EMS personnel are present, briefed, and ready for treatment and transport.

The line around the hot zone is called the "Hot Line". The area outside of this line is the "Warm Zone". The warm zone is also a restricted access area that acts as a buffer between the hot and cold zones. The warm zone contains the contamination reduction corridor, which is the only exit from the hot zone. The size and shape of the warm zone is dependent on the size and shape of the hot zone and the hazards in the hot zone. The "Contamination Control Line" around the outside of the warm zone should also be clearly marked with entry and exit from the cold zone restricted to one point.

Since decontamination of personnel exiting the hot zone occurs in the warm zone, the site safety officer will specify a level of protection for personnel working in the warm zone. The site safety officer (or his designate) will assume a position in the warm zone to control hot zone access, observe operations downrange, observe decontamination procedures, and to check personnel exiting the hot zone for signs and symptoms of exposure. Other personnel present include personnel assigned warm zone would the decontamination, the entry team, relief/rescue personnel, zone security personnel, etc. Entry into the warm zone from the cold zone should be restricted to personnel assigned necessary tasks in the hot or warm zone who are wearing the prescribed level of Entry through the cold/warm portal is controlled by protection.

the "Control Officer". The control officer maintains a log of personnel entering and leaving the warm zone to include names, times, purpose of entry, and level of protection. Law enforcement presence for security of the contamination control line is an effective control.

The site safety officer also monitors the conditions in the contamination reduction corridor. With repeated decon, the area containing the decon line may become contaminated. Should this happen, the site safety officer should close that decon area, adjust the hot zone accordingly, and establish a new decon line. This should not be done while personnel are in the hot zone, but between entries.

The area outside of the contamination control line is the "cold zone". The cold zone is a safe area which requires no personal protective equipment and contains the command post, staging areas, and the incident base. Since response personnel are working in the upwind areas of the cold zone, public access to these areas should be restricted to avoid interference with site operations.

Incident command, site development, and site control are all elements necessary to bring any hazardous materials incident to a successful conclusion. The size of the incident determines how complex the U.C.S. structure and site control will be, but the philosophies for safe operation are the same, regardless of the size of the incident. As with any policy or operating procedure; planning, training, and drilling with all potential responders are the keys to an effective hazardous materials response.

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